

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23214	ENU07008	ANI61C6898: 25-45 269..1113	53-72	738-757	LINAP		g136230	283	138	4.00E-32	38	18	"potassium transport protein, high-affinity ; potassium transport protein TRK1, high-affinity - yeast (Saccharomyces cerevisiae) (strain Saccharomyces uvarum) ; (M57508) high-affinity K+ transporter [Saccharomyces uvarum] " (AB014569) KIAA0669 protein [Homo sapiens] (D89340) dipeptidyl peptidase III [Rattus norvegicus] hypothetical 54.1 KD protein in TPS3-IPP2 intergenic region ; hypothetical protein YMR265c - yeast (Saccharomyces cerevisiae) ; (Z49260) unknown [Saccharomyces cerevisiae] (AF052606) chitin synthase 2 [Exophiala dermatitidis] hypothetical 65.9 KD protein C31A2.12 in chromosome I ; hypothetical protein SPAC31A2.12 - fission yeast (Schizosaccharomyces pombe) ; (Z50113) unknown [Schizosaccharomyces pombe] (U78318) chitinase [Entamoeba dispar] (AE000888) malate dehydrogenase [Methanobacterium thermoautotrophicum] (AL022598) hypothetical protein [Schizosaccharomyces pombe] (AF009921) I100 [Rattus norvegicus] enoyl-[acyl-carrier-protein] reductase (NADH) (NADH-dependent enoyl-ACP reductase) (AJ011965) oxidoreductase [Claviceps purpurea]
23215	ENU07009	ANI61C9885: 108-134 1609..1943	108-134	458-479	LINAP		g3327152	79	32	2.7			
23216	ENU07010	ANI61C89:88 7..1411	55-74	481-504	LINAP		g2832906	78	68	5.00E-11	35	18	
23217	ENU07011	ANI61C137:2 484..2939	22-46	450-477	LINAP		g2497213	70	54	0.000000	32	27	03
23218	ENU07012	ANI61C9887: 27-46 4536..4956	27-46	375-398	LINAP		g3548904	270	129	1.00E-29	40	17	
23219	ENU07013	ANI61C9344: 25-44 1183..3128	25-44	761-780	LINAP		g1175406	479	45	0.0007			
23220	ENU07014	ANI61C6320: 53-72 2654..1308	53-72	792-811	LINAP		g1685360	221	48	6.00E-22			
23221	ENU07015	ANI61C1396: 23-42 1125..1834	23-42	578-597	LINAP		g2622314	390	169	2.00E-41	38	69	
23222	ENU07016	ANI61C2287: 22-49 5829..4008	22-49	805-829	LINAP		g3080513	254	75	9.00E-13	26	25	
23223	ENU07017	ANI61C1403: 92-111 1512..1	92-111	723-749	LINAP		g2653779	572	172	2.00E-42	37	37	
23224	ENU07018	ANI61C8897: 36-63 1180..874	36-63	454-479	LINAP		g1169593	77	59	0.000000			
23225	ENU07019	ANI61C9319: 52-71 7975..8612	52-71	582-601	LINAP		g4499843	134	54	0.000001	37	24	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23226	ENU07020	ANI61C1431: 1307..1908	55-75	446-465	LINAP		g2879805	87	46	0.0002			(AL021813) hypothetical protein [Schizosaccharomyces pombe]
23227	ENU07021	ANI61C8917: 830..1371	22-43	497-521	LINAP		g2330876	275	123	6.00E-28	38	33	[Schizosaccharomyces pombe]
23228	ENU07022	ANI61C9370: 27-49 2680..3096	27-49	411-430	LINAP		g1352686	42	51	0.000006			"protein phosphatase 2C (PP2C) ; phosphoprotein phosphatase (EC 3.1.3.16) 2c, membrane-bound - Paramecium tetraurelia (SGC5) ; (Z36985) PP2C [Paramecium tetraurelia]"
23229	ENU07023	ANI61C2346: 65-84 1..1323	65-84	805-829	LINAP		g3885836	508	82	5.00E-20	28	42	(AF091042) putative cercosporin transporter [Cercospora kikuchii]
23230	ENU07024	ANI61C1412: 22-42 2665..1680	22-42	789-807	LINAP		g117135	584	137	4.00E-60	47	57	cytochrome C oxidase assembly protein COX10 precursor ; COX10 protein precursor - yeast (Saccharomyces cerevisiae) ; (M55566) COX10 [Saccharomyces cerevisiae] ; (Z73528) ORF YPL172c [Saccharomyces cerevisiae]
23231	ENU07025	ANI61C6288: 35-54 2142..1088	35-54	783-802	LINAP		g2257512	577	46	0.0002			(AB004535) hypothetical protein YPR112c [Schizosaccharomyces pombe]
23232	ENU07026	ANI61C6888: 29-49 1..2334	29-49	810-829	LINAP		g1546072	735	126	2.00E-28	29	11	(U68040) polyketide synthase [Cochliobolus heterostrophus]
23233	ENU07027	ANI61C8905: 28-48 1938..1	28-48	765-784	LINAP		g128340	158	46	0.0003			nitrogen assimilation transcription factor NIRA ; nitrate assimilation regulatory protein nira - Emericella nidulans ; (M68900) NIRA protein [Emericella nidulans]
23234	ENU07028	ANI61C1412: 22-49 3441..3876	22-49	405-425	LINAP		g3165391	151	78	4.00E-14	34	58	(AB014471) compared with Cricetulus griseus SL15 mRNA; GenBank Accession Number U55387 [Mus musculus]
23235	ENU07029	ANI61C8909: 22-42 530..1462	22-42	802-829	LINAP		g539247	840	121	5.00E-38	43	12	SPO14 protein - yeast (Saccharomyces cerevisiae) ; (Z28256) ORF YKR031c [Saccharomyces cerevisiae]
23236	ENU07030	ANI61C6288: 23-42 6978..4884	23-42	805-829	LINAP		g388367	1750	220	7.00E-57	40	38	(L19875) Dur3 [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23237	ENU07031	ANI61C8926: 1015..1	22-47	772-792	LINAP		g122798	85	65	7.00E-10			hemocyanin D chain ; hemocyanin chain d - American tarantula (Eurytelma californica)
23238	ENU07032	ANI61C1439: 26-53 650..1414	26-53	716-735	LINAP		g118571	164	118	6.00E-26			granaticin polyketide synthase putative ketoacyl reductase 1 (ORF5) ; granaticin-producing polyketide synthase chain 5 - Streptomyces violaceoruber ; (X16144) ketoacyl reductase (AA 1-273) [Streptomyces violaceoruber] ; (X16300) ORF 5 (AA 1-272) [Streptomyces violaceoruber] ; (AJ011500) polyketide ketoreductase [Streptomyces violaceoruber] modifier 3 protein (M33) ; modifier-3 protein - mouse ; (X62537) modifier 3 (M33) [Mus musculus] (AF060544) androgen receptor associated protein 54 [Homo sapiens] (AL031518) putative phospholipase [Schizosaccharomyces pombe] hypothetical protein YHR016c - yeast (Saccharomyces cerevisiae) ; (U10400) Ysc84p [Saccharomyces cerevisiae] (AL031856) hypothetical protein [Schizosaccharomyces pombe] IKI3 protein ; probable membrane protein YLR384c - yeast (Saccharomyces cerevisiae) ; (U19104) IKI3p [Saccharomyces cerevisiae] ; (D87841) IKI3p [Saccharomyces cerevisiae]
23239	ENU07033	ANI61C8916: 282..845	24-43	520-539	LINAP		g266545	98	31	5.3			
23240	ENU07034	ANI61C3321: 316..1	102-124	459-478	LINAP		g4530066	73	37	0.08	29	30	
23241	ENU07035	ANI61C9931: 1378..1	24-48	723-749	LINAP		g3560189	372	135	3.00E-31	37	35	
23242	ENU07036	ANI61C322: 92..1337			LINAP		g626598	199	75	4.00E-19	40	42	
23243	ENU07037	ANI61C6894: 1533..2570	22-48	789-815	LINAP		g3738165	310	85	5.00E-23	34	34	
23244	ENU07038	ANI61C2329: 5487..5174			LINAP		g2498477	219	74	4.00E-13	49	7	
23245	ENU07039	ANI61C6906: 1..797	111-131	744-764	LINAP		g3334399	119	50	0.00002	27	28	ubiquitin carboxyl-terminal hydrolase 16 (ubiquitin thiolesterase 16) (ubiquitin-specific processing protease 16) (deubiquitinating enzyme 16) ; probable membrane protein YPL072w - yeast (Saccharomyces cerevisiae) ; (U41849) Lpf12p [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23246	ENU07040	ANI61C9403: 22-41 1344..1768	22-41	455-479	LINAP		g418404	335	159	1.00E-38	55	29	guanosine-diphosphatase (GDPASE) ; guanosine-diphosphatase (EC 3.6.1.42) - yeast (Saccharomyces cerevisiae) ; (L19560) guanosine diphosphatase [Saccharomyces cerevisiae] ; (U18779) Gdalp: guanosine-diphosphatase of Golgi membrane [Saccharomyces cerevisiae]
23247	ENU07041	ANI61C3333: 22-47 3433..4136	22-47	576-595	LINAP		g1685364	233	130	1.00E-29	30	45	(U78320) chitinase [Entamoeba invadens]
23248	ENU07042	ANI61C2366: 29-48 1150..1	29-48	725-749	LINAP		g3282044	1664	510	e-144	86	19	(Y13967) alpha-aminoadipate reductase large subunit [Penicillium chrysogenum]
23249	ENU07043	ANI61C691:8 53-71 84..564	53-71	410-430	LINAP		g544446	43	47	0.00007			membrane transporter D1 ; membrane transport protein (clone D1.SH) - Leishmania donovani ; (M85072) D1 transporter [Leishmania donovani] ; myo-inositol/H symporter [Leishmania donovani]
23250	ENU07044	ANI61C9381: 3456..3877			LINAP		g2706465	157	92	3.00E-18	34	19	(AL021046) positive regulator of camp dependent protein kin ase [Schizosaccharomyces pombe]
23251	ENU07045	ANI61C2373: 38-59 815..203	38-59	567-586	LINAP		g4263825	350	98	3.00E-35	42	16	(AC006067) hypothetical protein [Arabidopsis thaliana]
23252	ENU07046	ANI61C1454: 23-42 668..1	23-42	566-588	LINAP		g2415403	232	109	1.00E-23	32	50	(AF015775) acetylornitine deacetylase [Bacillus subtilis] ; (Z99114) acetylornitine deacetylase [Bacillus subtilis]
23253	ENU07047	ANI61C6226: 69-88 2377..306	69-88	805-823	LINAP		g1084543	546	230	1.00E-59	39	12	FAB1 protein - yeast (Saccharomyces cerevisiae) ; (D50617) FAB1 protein [Saccharomyces cerevisiae]
23254	ENU07048	ANI61C992:7 27-54 69..1308	27-54	488-507	LINAP		g1582765	126	67	8.00E-11	32	29	YFW1 gene [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23255	ENU07049	ANI61C2379: 835..1525			LINAP		g417780	145	50	3.00E-11	35	29	meiosis induction protein kinase IME2/SME1 ; probable protein kinase SME1 (EC 2.7.1.-) - yeast (Saccharomyces cerevisiae) ; (X53262) protein kinase homologue [Saccharomyces cerevisiae] ; (X85021) SME1 [Saccharomyces cerevisiae] ; (Z49381) ORF YJL106w [Saccharomyces cerevisiae] (AL023592) rna binding protein [Schizosaccharomyces pombe] (Y12709) tealp [Schizosaccharomyces pombe] ; (AL031579) cell polarity protein [Schizosaccharomyces pombe] hypothetical 98.4 KD protein C19G10.07 in chromosome I ; (Z69909) multiple BRCT domain containing protein [Schizosaccharomyces pombe] hypothetical 130.0 KD protein in SNF6-SPO11 intergenic region ; hypothetical protein YHL023c - yeast (Saccharomyces cerevisiae) ; (U11582) No definition line found [Saccharomyces cerevisiae] hypothetical protein YOR049c - yeast (Saccharomyces cerevisiae) ; (Z74957) ORF YOR049c [Saccharomyces cerevisiae] histone H1.1 ; histone H1.1 - Arabidopsis thaliana ; (X62458) Histone H1 [Arabidopsis thaliana] transaldolase ; (L47327) transaldolase [Anabaena variabilis] (Z99531) ubiquitin system protein [Schizosaccharomyces pombe]
23256	ENU07050	ANI61C6348: 23-43 1090..1		784-803	LINAP		g1316059	282	113	2.00E-24	26	21	
23257	ENU07051	ANI61C6908: 28-55 1934..721		803-829	LINAP		g2065436	609	192	3.00E-48	38	21	
23258	ENU07052	ANI61C9404: 22-42 1286..1		717-741	LINAP		g1723501	322	122	4.00E-27	28	29	
23259	ENU07053	ANI61C9946: 121-140 1..1277		804-824	LINAP		g731604	169	71	3.00E-17			
23260	ENU07054	ANI61C1405: 22-41 5270..6129		805-826	LINAP		g2132036	215	78	5.00E-17	33	68	
23261	ENU07055	ANI61C6251: 102-124 358..1		452-479	LINAP		g121902	86	33	1.2			
23262	ENU07056	ANI61C6955: 22-41 540..1014		374-392	LINAP		g1729831	114	64	5.00E-10	33	45	
23263	ENU07057	ANI61C9408: 72-91 2559..1452		806-829	LINAP		g2440180	412	126	2.00E-28	31	8	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23264	ENU07058	ANI61C3372: 107-127 1.343	107-127	299-321	LINAP		g730745	181	99	1.00E-20	43	9	"osomolarity two-component system protein SLN1 ; SLN1 protein - yeast (Saccharomyces cerevisiae) ; (U01835) Sln1p [Saccharomyces cerevisiae] ; (Z38059) sln1, len: 1220, CAI: 0.13, similar to two component regulatory proteins [Saccharomyces cerevisiae] " hypothetical 37.9 KD protein in STE12-NAM8 intergenic region ; hypothetical protein YHR085w - yeast (Saccharomyces cerevisiae) ; (U10556) Yhr085wp [Saccharomyces cerevisiae] STB2 protein ; SIN3 protein-binding protein STB2 - yeast (Saccharomyces cerevisiae) ; (Z49703) unknown [Saccharomyces cerevisiae] ; (U33438) Stb2p [Saccharomyces cerevisiae] (AL035521) hypothetical protein [Arabidopsis thaliana] (AL034352) hypothetical protein [Schizosaccharomyces pombe] (Z98849) putative dna repair helicase [Schizosaccharomyces pombe] hypothetical 71.9 KD protein in PMI40-PAC2 intergenic region ; hypothetical protein YER005w - yeast (Saccharomyces cerevisiae) ; (U18778) Yer005wp [Saccharomyces cerevisiae] (Z98849) putative centromere protein [Schizosaccharomyces pombe] (AB004539) hypothetical 229.9KD protein in NUC1-PRP21 intergenic region [Schizosaccharomyces pombe] (AL034353) probable metabolite transport protein [Schizosaccharomyces pombe]
23265	ENU07059	ANI61C2389: 104-130 436..1	104-130	391-417	LINAP		g731682	143	56	0.000000	26	49	
23266	ENU07060	ANI61C1400: 58-77 7790..8761	58-77	786-805	LINAP		g1711559	258	125	5.00E-28	30	33	
23267	ENU07061	ANI61C3370: 22-49 472..1840	22-49	806-828	LINAP		g4455171	478	160	1.00E-38	36	26	
23268	ENU07062	ANI61C1472: 69-87 2044..1716	69-87	416-435	LINAP		g3925763	229	48	0.000000	36	51	
23269	ENU07063	ANI61C6341: 39-66 1805..2935	39-66	801-821	LINAP		g2370478	1370	354	e-106	74	34	
23270	ENU07064	ANI61C6930: 134-157 4924..4444	134-157	416-435	LINAP		g731435	216	74	3.00E-21	36	22	
23271	ENU07065	ANI61C9421: 65-86 390..1	65-86	457-479	LINAP		g2370479	227	111	2.00E-24	35	25	
23272	ENU07066	ANI61C1483: 33-52 850..202	33-52	579-606	LINAP		g2257560	173	93	1.00E-18	30	11	
23273	ENU07067	ANI61C6334: 22-44 883..2416	22-44	805-824	LINAP		g3925778	835	78	2.00E-29	43	46	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23274	ENU07068	ANI61C6965: 22-46 508..1471	803-829	803-829	LINAP		g1730664	698	152	1.00E-44	40	72	SMM1 protein ; hypothetical protein YNR015w - yeast (Saccharomyces cerevisiae) ; (Z71630) ORF YNR015w [Saccharomyces cerevisiae] ; (X91816) SMM1 protein [Saccharomyces cerevisiae]
23275	ENU07069	ANI61C9916: 22-44 324..1953	802-829	802-829	LINAP		g1706177	1207	183	1.00E-45	43	27	cutinase transcription factor 1 beta ; (U51672) cutinase transcription factor 1 [Fusarium solani f. sp. pisi]
23276	ENU07070	ANI61C1467: 102-124 1..392	349-368	349-368	LINAP		g3970880	193	101	2.00E-21	45	33	(AB015724) nuclear receptor binding factor-1 [Rattus norvegicus]
23277	ENU07071	ANI61C6366: 41-63 43..918	790-811	790-811	LINAP		g2330868	656	231	5.00E-60	58	88	(Z98603) putative proteosome component [Schizosaccharomyces pombe]
23278	ENU07072	ANI61C6991: 34-53 1151..781	312-330	312-330	LINAP		g4499843	204	45	0.0002	42	25	(AJ011965) oxidoreductase [Claviceps purpurea]
23279	ENU07073	ANI61C9395: 28-47 4754..5371	573-597	573-597	LINAP		g2780359	467	202	2.00E-51	52	34	(AB010110) ascorbate oxidase [Acremonium sp.]
23280	ENU07074	ANI61C237:1 822..2409	525-544	525-544	LINAP		g2634103	208	99	2.00E-20	31	4	(Z99113) polyketide synthase [Bacillus subtilis]
23281	ENU07075	ANI61C9452: 106-133 1..566	522-541	522-541	LINAP		g4502497	158	106	1.00E-22	33	61	chromosome 22 open reading frame 1 ; (U84894) 239AB [Homo sapiens]
23282	ENU07076	ANI61C6338: 22-44 2420..1309	800-819	800-819	LINAP		g2648929	102	38	0.000000			(AE000990) aspartate aminotransferase (aspB-3) [Archaeoglobus fulgidus]
23283	ENU07077	ANI61C146:2 232..745	805-829	805-829	LINAP		g3650387	570	121	7.00E-27	32	16	(AL031743) conserved hypothetical protein [Schizosaccharomyces pombe]
23284	ENU07078	ANI61C3374: 22-46 1098..2512	772-791	772-791	LINAP		g1703456	758	188	4.00E-47	48	24	Cation-transporting ATPase PAT1 ; PAT1 protein - slime mold (Dictyostelium discoideum) ; (X89369) PAT1 protein [Dictyostelium discoideum]
23285	ENU07079	ANI61C7547: 22-44 1306..1	761-780	761-780	LINAP		g3337389	1305	380	e-105	67	23	(AC004682) pre-mRNA splicing factor (PRP16)(KIAA0224) [Homo sapiens]
23286	ENU07080	ANI61C9916: 22-41 4011..5218	808-829	808-829	LINAP		g461830	575	104	8.00E-22	39	33	"carboxypeptidase S1 ; carboxypeptidase S1 - Penicillium janthinellum ; carboxypeptidase S1, CPD-S1 [Penicillium janthinellum, Peptide, 423 aa] ; carboxypeptidase S1 [Penicillium janthinellum] "

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23287	ENU07081	ANI61C3345: 1879..983	22-44	808-827	LINAP		g3319757	99	45	0.0007	24	27	(AL031035) putative ATP/GTP-binding protein [Streptomyces coelicolor]
23288	ENU07082	ANI61C6996: 22-46	22-46	456-483	LINAP		g3978134	312	64	7.00E-30	55	13	(U65409) Sla2p [Yarrowia lipolytica]
23289	ENU07083	ANI61C3379: 22-44	22-44	372-399	LINAP		g3925755	225	106	1.00E-22	40	30	(AL034352) putative phosphodiesterase-nucleotide pyrophosphatase precursor [Schizosaccharomyces pombe]
23290	ENU07084	ANI61C239:1..917			LINAP		g3219911	762	250	7.00E-66	54	32	putative kinesin-like protein C2F12.13; (Z97211) kinesin-like protein [Schizosaccharomyces pombe]
23291	ENU07085	ANI61C6990: 44-63	44-63	554-579	LINAP		g1352938	294	127	9.00E-29	37	60	hypothetical 39.7 KD protein in HOM6-PMT4 intergenic region; hypothetical protein YJR142w - yeast (Saccharomyces cerevisiae); (Z49642) ORF YJR142w [Saccharomyces cerevisiae]
23292	ENU07086	ANI61C7552: 23-48	23-48	693-715	LINAP		g2648302	334	171	4.00E-42	50	83	"(AE000952) 2-hydroxyhepta-2,4-diene-1,7-dioate isomerase (hpcE-2) [Archaeoglobus fulgidus]"
23293	ENU07087	ANI61C9970: 22-48	22-48	465-492	LINAP		g1077378	114	44	0.0007			probable membrane protein YLR222c - yeast (Saccharomyces cerevisiae); (U19027) Ylr222cp [Saccharomyces cerevisiae]
23294	ENU07088	ANI61C3355: 1..522			LINAP		g2131504	282	106	1.00E-22	40	27	hypothetical protein YDR456w - yeast (Saccharomyces cerevisiae); (U33007) Ydr456wp; CAI: 0.16 [Saccharomyces cerevisiae]
23295	ENU07089	ANI61C2400: 53-72	53-72	803-822	LINAP		g2911284	478	90	3.00E-33	47	56	(U97681) putative splicing factor [Schizosaccharomyces pombe]; (AL035675) putative splicing factor. [Schizosaccharomyces pombe]
23296	ENU07090	ANI61C6338: 40-60	40-60	796-815	LINAP		g2330697	240	88	4.00E-23			(Z98529) mating and morphogenesis protein Scd1p. [Schizosaccharomyces pombe]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23297	ENU07091	ANI61C1504: 27-45 508..1	27-45	382-404	LINAP		g1174862	210	67	3.00E-21	35	33	putative ubiquitin carboxyl-terminal hydrolase C13A11.04C (ubiquitin thiolesterase) (ubiquitin-specific processing protease) (deubiquitinating enzyme) ; (Z54096) unknown [Schizosaccharomyces pombe] (Z97341) heat shock protein 110 homolog [Arabidopsis thaliana] phosphate transporter - Glomus versiforme ; (U38650) phosphate transporter [Glomus versiforme] ; phosphate transporter [Glomus versiforme]
23298	ENU07092	ANI61C6368: 22-49 3857..3370	22-49	287-306	LINAP		g2245021	125	82	3.00E-15	30	57	[Schizosaccharomyces pombe] (Z97341) heat shock protein 110 homolog [Arabidopsis thaliana] phosphate transporter - Glomus versiforme ; (U38650) phosphate transporter [Glomus versiforme] ; phosphate transporter [Glomus versiforme]
23299	ENU07093	ANI61C3343: 22-49 3736..2779	22-49	807-829	LINAP		g2147899	609	132	2.00E-30	40	47	phosphate transporter [Glomus versiforme] ; phosphate transporter [Glomus versiforme]
23300	ENU07094	ANI61C6335: 66-85 3430..4017	66-85	519-538	LINAP		g725498	72	36	0.29			(U14651) protein VI precursor [Human adenovirus type 40]
23301	ENU07095	ANI61C7006: 59-78 594..1277	59-78	556-575	LINAP		g3258637	82	71	1.00E-11			(AF041050) 4-coumarate:CoA ligase [Populus tremuloides]
23302	ENU07096	ANI61C6335: 163-182 7599..8160	163-182	384-403	LINAP		g2132853	93	48	0.00006	40	52	probable membrane protein YOL146w - yeast [Saccharomyces cerevisiae] ; (Z48239) orf6 [Saccharomyces cerevisiae] ; (Z74888) ORF YOL146w [Saccharomyces cerevisiae]
23303	ENU07097	ANI61C7575: 66-86 419..1	66-86	434-453	LINAP		g3114719	131	46	2.00E-12	34	9	[Saccharomyces cerevisiae] (Z68906) ATP-binding multidrug cassette transporter [Botryotinia fuckeliana]
23304	ENU07098	ANI61C9442: 22-49 4191..3548	22-49	602-623	LINAP		g2827571	149	63	4.00E-10	30	54	(AL021646) hypothetical protein Rv3161c [Mycobacterium tuberculosis]
23305	ENU07099	ANI61C3385: 1126..1478			LINAP		g2135769	61	44	0.000000	30	10	"multidrug resistance protein, canalicular - human ; (X96395) canalicular multidrug resistance protein [Homo sapiens] "
23306	ENU07100	ANI61C2418: 1..3138			LINAP		g3136094	5014	415	e-135	96	23	(AF032987) spindle assembly checkpoint protein SLDA [Emmericella nidulans]

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23307	ENU07101	ANI61C1519: 1..384	102-127	339-363	LINAP		g3874095	126	57	0.000000	04		(Z49908) cDNA EST EMBL:D67930 comes from this gene; cDNA EST EMBL:D27476 comes from this gene; cDNA EST yk317d5.5 comes from this gene; cDNA EST yk443d4.5 comes from this gene; cDNA ES...; (Z81573) cDNA EST EMBL:D67930 comes from this gene; cDNA EST EMBL:D27476 comes from this gene; cDNA EST EMBL:D27475 comes from this gene; cDNA EST yk317d5.5 comes from this gene; cDNA EST yk443d4.5 comes from this gene; cDNA ES...; (Z99268) cDNA EST EMBL:D67930 comes from this gene; cDNA EST EMBL:D27476 comes from this gene; cDNA EST EMBL:D27475 comes from this gene; cDNA EST yk317d5.5 comes from this gene; cDNA EST yk443d4.5 comes from this gene; cDNA ES...
23308	ENU07102	ANI61C6992: 45-72 412..1	457-72	457-479	LINAP		g2133035	345	113	3.00E-29	48	30	probable membrane protein YPR157w - yeast (Saccharomyces cerevisiae); (U28371) P9584.4 gene product [Saccharomyces cerevisiae]
23309	ENU07103	ANI61C7532: 68-94 1..595	68-94	550-572	LINAP		g4557787	172	74	3.00E-19	31	35	neutrophil cytosolic factor 2; p67phox; 67K neutrophil oxidase factor - human; (M32011) neutrophil oxidase factor [Homo sapiens]
23310	ENU07104	ANI61C9963: 22-48 920..596	22-48	457-479	LINAP		g119164	149	54	0.000000	44	17	elongation factor 1-gamma (EF-1-gamma); translation elongation factor eEF-1 gamma chain - brine shrimp; (M28020) elongation factor 1-gamma [Artemia sp.]
23311	ENU07105	ANI61C3351: 22-42 6114..7195	22-42	785-809	LINAP		g2462679	110	75	9.00E-13	24	29	(Z99568) putative regulatory protein; zinc finger [Schizosaccharomyces pombe]

Seq num	Seq id	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23312	ENU07106	Contig source ANI61C2433: 22-43 501..1	332-359	LINAP		g396376	247	119	1.00E-26	38	18	(U00006) glycerol-3-phosphate acyltransferase [Escherichia coli]
23313	ENU07107	ANI61C1524: 22-49 3022..2112	807-827	LINAP		g3218397	466	111	6.00E-24	38	34	(AL023860) hypothetical protein [Schizosaccharomyces pombe]
23314	ENU07108	ANI61C7026: 65..750		LINAP		g2660670	174	90	1.00E-17	30	23	(AC002342) putative Cu+-transporting ATPase [Arabidopsis thaliana]
23315	ENU07109	ANI61C7532: 38-57 2776..3178	453-479	LINAP		g1717966	88	46	0.0001	23	40	UFE1 protein; UFE1 protein - yeast (Saccharomyces cerevisiae); (L15081) UFE1 gene product [Saccharomyces cerevisiae]; (U53416) Ufe1p [Saccharomyces cerevisiae]; (Z74983) ORF YOR075w [Saccharomyces cerevisiae]; (Z70678) YOR29-26 [Saccharomyces cerevisiae]
23316	ENU07110	ANI61C9485: 42-60 2172..2716	487-511	LINAP		g2500938	314	74	2.00E-26	44	28	myo-inositol transporter 1; (X98622) myo-inositol transporter [Schizosaccharomyces pombe]
23317	ENU07111	ANI61C339:1 22-43 110..421	607-629	LINAP		g3153821	20	41	0.006			(AF062655) plenty-of-prolines-101; POP101; SH3-philo-protein [Mus musculus]
23318	ENU07112	ANI61C2444: 22-48 1043..700	430-457	LINAP		g1805251	152	85	3.00E-16	32	28	(U58946) transposase [Aspergillus awamori]
23319	ENU07113	ANI61C6363: 29-56 4145..5494	747-774	LINAP		g2388895	350	61	0.000000			(Z98981) hypothetical protein [Schizosaccharomyces pombe]
23320	ENU07114	ANI61C9995: 39-58 79..840	717-741	LINAP		g4104400	130	38	0.11			(AF035401) exocellobiohydrolase precursor [Piromyces rhizinflata]
23321	ENU07115	ANI61C244:2 55-79 292..1664	587-606	LINAP		g4200325	160	76	3.00E-13			(Z98885) dJ522J7.2 (Peregrin (BR140) like protein) [Homo sapiens]
23322	ENU07116	ANI61C1494: 4073..4386		LINAP		g562121	106	62	0.000000	39	16	(U16137) Mvp1p [Saccharomyces cerevisiae]
23323	ENU07117	ANI61C6387: 71-90 695..281	457-476	LINAP		g3288594	198	74	3.00E-18	44	11	(AJ006340) 26S proteasome subunit p112 [Rattus norvegicus]
23324	ENU07118	ANI61C1547: 22-47 572..260	447-466	LINAP		g1175451	131	80	1.00E-14	36	8	hypothetical protein C22F3.14C in chromosome 1; hypothetical protein SPAC22F3.14c - fission yeast (Schizosaccharomyces pombe); (Z54285) unknown [Schizosaccharomyces pombe]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23325	ENU07119	ANI61C7576: 1737..2047			LINAP		g1078614	212	96	3.00E-20	47	21	stearoyl-CoA desaturase (EC 1.14.99.5) - <i>Ajellomyces capsulata</i> ; (X85962) delta-9 fatty acid desaturase [Ajellomyces capsulatus]
23326	ENU07120	ANI61C339:2 41-59 465..2107	456-479		LINAP		g4586315	104	57	0.000000 06	28	29	(AB010438) organic-cation transporter like 3 [Homo sapiens]
23327	ENU07121	ANI61C9972: 22-43 1208..2292	790-809		LINAP		g4033481	224	110	1.00E-23	33	53	putative tartrate transporter ; (U32375) membrane protein [Agrobacterium vitis]
23328	ENU07122	ANI61C7593: 27-46 972..357	379-397		LINAP		g3136052	235	62	0.000000 004	40	34	(AL023592) acetamidase [Schizosaccharomyces pombe]
23329	ENU07123	ANI61C9992: 32-54 1870..1	779-803		LINAP		g3184062	240	59	7.00E-19	31	16	(AL023776) hypothetical protein [Schizosaccharomyces pombe]
23330	ENU07124	ANI61C2437: 1456..399			LINAP		g3406059	603	124	8.00E-55	52	61	(AF017646) TFIIF subunit p47 [Schizosaccharomyces pombe] ; (AL031525) tfiif subunit p47. [Schizosaccharomyces pombe]
23331	ENU07125	ANI61C7578: 30-49 1121..2101	782-801		LINAP		g3024604	169	46	0.0004	26	23	suppressor protein SEF1 ; (U92898) suppressor protein [Kluveromyces fragilis]
23332	ENU07126	ANI61S1068: 439..1	104-130 373-395		LINAP		g2619050	97	56	0.000000 1	27	55	(AF027868) YocH [Bacillus subtilis] ; (Z99114) similar to cell wall-binding protein [Bacillus subtilis]
23333	ENU07127	ANI61C3399: 97-119 2562..1	708-731		LINAP		g2147662	793	103	1.00E-21	27	12	melanin biosynthetic polyketide synthase PKS1 - Colletotrichum lagenarium ; (D83643) polyketide synthase [Colletotrichum lagenarium] (Z99532) putative integral membrane protein [Schizosaccharomyces pombe]
23334	ENU07128	ANI61C2439: 318..1	456-476		LINAP		g2440206	307	136	8.00E-32	39	21	protein [Schizosaccharomyces pombe] (AL023589) membrane transporter [Schizosaccharomyces pombe]
23335	ENU07129	ANI61C6408: 40-59 2484..889	809-829		LINAP		g3135990	1070	171	4.00E-42	49	46	(M36482) SNF5 protein [Saccharomyces cerevisiae]
23336	ENU07130	ANI61C7586: 46-65 1171..1	613-630		LINAP		g172638	430	153	1.00E-36	42	21	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23337	ENU07131	ANI61C9493: 35-62 3165..373	35-62	715-739	LINAP		g548817	2756	333	1.00E-90	59	15	DNA-directed RNA polymerase II largest subunit (RNA polymerase II subunit 1) ; DNA-directed RNA polymerase (EC 2.7.7.6) II largest chain - fission yeast (Schizosaccharomyces pombe) ; (X56564) RNA polymerase II large subunit [Schizosaccharomyces pombe] (AL035076) putative allantoate permease [Schizosaccharomyces pombe]
23338	ENU07132	ANI61C3414: 38-60 1630..2327	38-60	567-586	LINAP		g4107287	184	80	1.00E-23	41	32	(AJ009555) hypothetical protein [Arabidopsis thaliana] (AL031349) conserved hypothetical protein [Schizosaccharomyces pombe] (Z70751) similar to 4-coumarate-CoA ligase; cDNA EST EMBL: C07240 comes from this gene; cDNA EST EMBL: C08540 comes from this gene [Caenorhabditis elegans] hypothetical 210.4 KD protein in GUT1-RIM1 intergenic region ; hypothetical protein YHL030w - yeast (Saccharomyces cerevisiae) ; (U11583) YHL030w gene product [Saccharomyces cerevisiae] (AF093142) aconitase [Aspergillus terreus]
23339	ENU07133	ANI61C2243:2 51-70 14..1076	51-70	809-828	LINAP		g4200122	462	119	4.00E-35	48	100	SMP2 protein ; SMP2 protein - yeast (Saccharomyces cerevisiae) ; (D01095) Smp2p [Saccharomyces cerevisiae] ; (Z49705) Smp2p [Saccharomyces cerevisiae] ; SMP2 gene [Saccharomyces cerevisiae] (L40632) ankyrin 3 [Mus musculus]
23340	ENU07134	ANI61C9478: 44-63 721..1	44-63	644-663	LINAP		g3451474	753	300	9.00E-81	62	38	
23341	ENU07135	ANI61C2443: 118-140 452..1	118-140	460-479	LINAP		g3875727	50	58	0.000000			
23342	ENU07136	ANI61C7019: 22-42 2157..358	22-42	785-812	LINAP		g731610	336	74	1.00E-12			
23343	ENU07137	ANI61C3440: 42-69 402..795	42-69	362-381	LINAP		g3661614	604	228	3.00E-59	84	17	
23344	ENU07138	ANI61C2443: 24-46 3603..2148	24-46	798-821	LINAP		g417782	773	212	5.00E-74	56	30	
23345	ENU07139	ANI61C9482: 24-46 3304..3985	24-46	635-659	LINAP		g710551	182	84	1.00E-15			
23346	ENU07140	ANI61S138:9 67..501			LINAP		76					29	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23347	ENU07141	ANI61C342:2 543..874	22-44	809-829	LINAP		g4309732	141	33	2.3			(AC006439) hypothetical protein [Arabidopsis thaliana]
23348	ENU07142	ANI61C6406: 1516..4364	71-90	762-780	LINAP		g3298562	1004	61	0.000000			(U91543) zinc-finger helicase [Homo sapiens]
23349	ENU07143	ANI61C7015: 4595..3707	22-47	781-800	LINAP		g3133109	463	141	8.00E-33	33	38	(AL023354) fork head protein type transcription factor [Schizosaccharomyces pombe]
23350	ENU07144	ANI61S1513: 1..553	168-187	331-350	LINAP		g1351702	67	67	1.00E-10			hypothetical 61.1 KD protein C11D3.05 in chromosome I; (Z68166) unknown [Schizosaccharomyces pombe]
23351	ENU07145	ANI61C3439: 888..1	36-55	800-825	LINAP		g4107480	332	69	9.00E-27	47	39	(AL035085) putative mitochondrial carrier protein [Schizosaccharomyces pombe]
23352	ENU07146	ANI61C6426: 311..1385			LINAP		g2073105	546	185	4.00E-46	42	38	(AB003310) chitin synthase regulatory factor [Candida albicans]
23353	ENU07147	ANI61C7062: 574..267	27-54	263-287	LINAP		g4557813	65	52	0.000001	30	11	"phosphatidylinositol polyphosphate 5-phosphatase, isoform a; (U57627) ocr1l [Homo sapiens]"
23354	ENU07148	ANI61C7611: 2352..1355	155-179	681-700	LINAP		g4049510	170	86	3.00E-16	29	49	(AL034563) putative polyA-binding protein. [Schizosaccharomyces pombe]
23355	ENU07149	ANI61S187:3 02..898			LINAP		g2493724	199	79	2.00E-14	44	32	"citrate synthase, mitochondrial precursor; (AB001565) citrate synthase [Candida tropicalis]"
23356	ENU07150	ANI61C2463: 425..1	146-165	455-479	LINAP		g2842469	360	157	6.00E-38	46	21	(AL021747) hypothetical protein [Schizosaccharomyces pombe]
23357	ENU07151	ANI61C6416: 4247..4853	38-57	558-585	LINAP		g1857082	62	39	0.023			(U59915) Noc1p [Schizosaccharomyces pombe]; (Z99568) noc1p. [Schizosaccharomyces pombe]
23358	ENU07152	ANI61C7029: 4146..2624	71-90	806-825	LINAP		g1169238	935	133	4.00E-63	56	51	"glutamate decarboxylase (GAD); glutamate decarboxylase (EC 4.1.1.15), calmodulin-binding - garden petunia; (L16797) glutamate decarboxylase [Petunia hybrida]; (L16977) glutamate decarboxylase [Petunia hybrida]"
23359	ENU07153	ANI61S2140: 234..722			LINAP		g4539416	82	67	1.00E-10	37	20	(AL049171) l-aminocyclopropane-l-carboxylate synthase-like protein [Arabidopsis thaliana]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23360	ENU07154	ANI61C2464: 434..1	102-120	415-434	LINAP		g479416	189	87	1.00E-16	30	24	kinasin light chain isoform 3 - sea urchin (Strongylocentrotus purpuratus)
23361	ENU07155	ANI61C6433: 3153..2606	197-219	498-516	LINAP		g4033486	200	101	3.00E-21			putative tartrate transporter ; (U25634) putative tartrate transporter; inducible by tartrate; Method: conceptual translation supplied by author. [Agrobacterium vitis] ; tuB gene [Agrobacterium vitis]
23362	ENU07156	ANI61C955:9 21..1	44-68	722-749	LINAP		g4481951	734	148	3.00E-74	59	10	(AL035637) putative alpha-glucan synthase [Schizosaccharomyces pombe]
23363	ENU07157	ANI61C2468: 1656..2169	22-48	470-493	LINAP		g2132222	117	48	0.00004	30	29	hypothetical protein YPL181w - yeast (Saccharomyces cerevisiae) ; (Z73538) ORF YPL181w [Saccharomyces cerevisiae]
23364	ENU07158	ANI61C6422: 4382..4079	22-49	443-462	LINAP		g4263745	38	47	0.00009			"(AC004912) similar to CR16, SH3 domain binding protein; similar to 2205340A (PID:g1587070) [Homo sapiens]"
23365	ENU07159	ANI61C3420: 4161..4662	22-45	373-392	LINAP		g539323	323	143	1.00E-33	42	21	mitochondrial intermediate peptidase (EC 3.4.24.-) precursor - yeast (Saccharomyces cerevisiae) ; (Z28134) ORF YKL134c [Saccharomyces cerevisiae]
23366	ENU07160	ANI61S2566: 144..575	28-49	274-300	LINAP		g417049	110	79	2.00E-14	36	20	Gephyrin (putative glycine receptor-tubulin linker protein) ; gephyrin - rat ; (X66366) Gephyrin [Rattus norvegicus]
23367	ENU07161	ANI61C7048: 2867..3715	24-46	715-739	LINAP		g1351661	128	82	4.00E-15	29	37	hypothetical 60.7 KD protein C30D11.08C in chromosome I ; hypothetical protein SPAC30D11.08c - fission yeast (Schizosaccharomyces pombe) ; (Z67961) PHD finger protein [Schizosaccharomyces pombe]

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23368	ENU07162	ANI61C7624: 423..1	29-56	453-479	LINAP		g549758	67	50	0.00001			"FERRIC reductase transmembrane component 2 precursor ; ferric reductase FRE2 precursor - yeast (Saccharomyces cerevisiae) ; (X75950) ORF5, F711 [Saccharomyces cerevisiae] ; (Z28220) ORF YKL220c [Saccharomyces cerevisiae] ; ORF 5 [Saccharomyces cerevisiae] "
23369	ENU07163	ANI61S269:1..706	122-141	584-601	LINAP		g1679757	362	152	9.00E-40	39	30	(U77605) two-component histidine kinase CHK-1 [Glomerella cingulata] ; (U77606) two-component histidine kinase CHK-1 [Glomerella cingulata] (Z37980) hypothetical 4-hydroxyphenylacetate permease [Escherichia coli] (M18209) transcription factor S-II [Mus musculus] (L77234) glycine rich protein [Neurospora crassa] (M80368) pathway-specific regulatory protein [Neurospora crassa] chromosome scaffold protein sudA - Emericella nidulans ; (U40146) chromosome scaffold protein [Emericella nidulans] maltose permease MAL3T (maltose transport protein MAL3T) ; maltose transport protein MAL3T - yeast (Saccharomyces cerevisiae) ; (Z36167) ORF YBR298c [Saccharomyces cerevisiae]
23370	ENU07164	ANI61C3451: 2042..1199	36-63	792-819	LINAP		g757832	235	55	2.00E-15			
23371	ENU07165	ANI61C2468: 2660..3004	22-48	454-479	LINAP		g201937	81	74	6.00E-13	33	58	
23372	ENU07166	ANI61C7056: 2961..992	22-45	807-826	LINAP		g1261823	944	122	4.00E-27	36	28	
23373	ENU07167	ANI61C9538: 2083..1066	26-53	801-820	LINAP		g168849	144	56	5.00E-11	29	22	
23374	ENU07168	ANI61S298:1..458	149-168	291-318	LINAP		g2133266	311	97	8.00E-20	68	11	
23375	ENU07169	ANI61C248:1..359..1	25-45	757-780	LINAP		g585446	310	88	7.00E-17	23	45	
23376	ENU07170	ANI61C7021: 1..5469	22-43	801-828	LINAP		g2342601	2446	157	3.00E-44	38	5	(X89442) peptide synthetase [Metarhizium anisopliae]
23377	ENU07171	ANI61S3228: 569..243	136-161	276-294	LINAP		g445254	181	94	4.00E-19	74	16	(AL035523) putative protein [Arabidopsis thaliana]

Gene ID: 1017

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23378	ENU07172	ANI61C9548: 2731..2342	72-91	301-320	LINAP		g586300	275	125	1.00E-28	44	34	hypothetical 44.4 KD protein in CDC28-ARL1 intergenic region ; SUR1 protein homolog YBR161w - yeast (Saccharomyces cerevisiae) ; (X80224) YBR1212 [Saccharomyces cerevisiae] ; (Z36030) ORF YBR161w [Saccharomyces cerevisiae] (U78597) kinesin light chain [Plectonema boryanum] (AJ010981) putative transposase [Talaromyces stipitatus] conidial green pigment synthase ; probable polyketide synthase - Emericella nidulans ; (X65866) putative polyketide or fatty acid synthase [Emericella nidulans] ; wA gene [Emericella nidulans] SIS2 protein (halotolerance protein HAL3) ; hal3 protein - yeast (Candida tropicalis) ; (X88900) hal3 [Candida tropicalis] lactose permease - yeast (Kluyveromyces marxianus var. lactis) ; (X06997) lactose permease (AA 1-587) [Kluyveromyces lactis] (Z99163) hypothetical protein [Schizosaccharomyces pombe] (Z681119) cDNA EST EMBL:Z14951 comes from this gene; cDNA EST EMBL:T00215 comes from this gene; cDNA EST EMBL:D71583 comes from this gene; cDNA EST EMBL:D74238 comes from this gene; cDNA EST yk376f7.3 comes from this gene; cDNA ...
23379	ENU07173	ANI61S3294: 1..457	134-153	290-312	LINAP		g2645229	217	89	2.00E-17	36	31	
23380	ENU07174	ANI61C2501: 1..479	143-169	414-441	LINAP		g3646479	198	94	7.00E-19	32	94	
23381	ENU07175	ANI61C7017: 1088..1	26-45	722-749	LINAP		g549443	569	214	7.00E-55	39	14	
23382	ENU07176	ANI61S3549: 615..290			LINAP		g2498915	89	56	0.000000	33	19	
23383	ENU07177	ANI61C3502: 278..991	47-66	669-692	LINAP		g125935	248	112	2.00E-24	31	40	
23384	ENU07178	ANI61C252:1 513..953	22-48	519-538	LINAP		g2408040	116	46	0.000000	29	70	
23385	ENU07179	ANI61C7653: 750..401	22-46	433-452	LINAP		g3879884	138	33	1.4	5		

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23386	ENU07180	ANI61C9555: 72-91 1733..899	793-814	793-814	LINAP	g548976	101	49	0.00004	21	54		suppressor protein SRP40 ; SRP40 protein - yeast (Saccharomyces cerevisiae) ; (X73541) ORF YKR412 [Saccharomyces cerevisiae] ; (Z28317) ORF YKR092c [Saccharomyces cerevisiae]
23387	ENU07181	ANI61S3624: 47-66 1..392	301-323	301-323	LINAP	g2687633	61	43	0.00006	44	18		(AF035756) 2-dehydro-3-deoxyphosphoheptonate aldolase; phospho-2-dehydro-3-deoxyheptonate aldolase [Streptomyces sp.] (U28943) similar to ribitol dehydrogenase [Caenorhabditis elegans]
23388	ENU07182	ANI61C2550: 51-70 1249..1549	459-478	459-478	LINAP	g861340	69	46	0.0002				(AL049559) conserved hypothetical protein [Schizosaccharomyces pombe] (D87895) chitinase [Emencella nidulans]
23389	ENU07183	ANI61C7020: 22-48 1296..2568	804-829	804-829	LINAP	g4581524	695	260	8.00E-69	47	48		(AF001304) protease 1 [Pneumocystis carinii f. sp. carinii]
23390	ENU07184	ANI61C7660: 114-131 1990..1287	661-682	661-682	LINAP	g4063766	102	41	0.008				putative tartrate transporter ; (U25634) putative tartrate transporter; inducible by tartrate; Method: conceptual translation supplied by author.
23391	ENU07185	ANI61S3795: 122-149 343..1	259-280	259-280	LINAP	g2327061	181	90	9.00E-18	44	12		[Agrobacterium vitis] ; tuB gene [Agrobacterium vitis]
23392	ENU07186	ANI61C7664: 30-49 1..735	692-714	692-714	LINAP	g4033486	225	108	6.00E-23				(AF052586) beta-ketoacyl reductase [Pseudomonas aeruginosa]
23393	ENU07187	ANI61S4106: 138-158 416..1	299-318	299-318	LINAP	g2970667	157	81	6.00E-15	28	48		hypothetical 216.3 KD protein R06F6.8 in chromosome II ; (Z46794) cDNA EST EMBL: T01654 comes from this gene; cDNA EST EMBL: D32326 comes from this gene; cDNA EST EMBL: D32810 comes from this gene; cDNA EST EMBL: D34680 comes from this gene; cDNA EST EMBL: D35556 comes from this gene; cDN...
23394	ENU07188	ANI61C9570: 22-47 3084..1369	798-817	798-817	LINAP	g2496987	140	96	4.00E-19	35	8		

Genes

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23395	ENU07189	ANI61S4269: 1..380	87-106	229-248	LINAP		g730742	159	83	6.00E-16	32	10	SIP3 protein ; SIP3 protein - yeast (Saccharomyces cerevisiae) ; (U03376)
23396	ENU07190	ANI61C2478: 2192..1830	72-91	452-471	LINAP		g2501705	125	87	1.00E-16			Sip3p [Saccharomyces cerevisiae] ; (X96722) ORF N0844 [Saccharomyces cerevisiae] ; (Z71533) ORF YNL257c [Saccharomyces cerevisiae]
23397	ENU07191	ANI61C7092: 925..89	24-43	796-816	LINAP		g416592	84	46	0.0002			zinc finger protein GLI4 (neural specific DNA binding protein XGLI4) (XGLI-4) ; (U42462) neural specific DNA binding protein [Xenopus laevis]
23398	ENU07192	ANI61C9586: 1358..1838	46-65	410-431	LINAP		g2408062	189	87	1.00E-16	45	20	A-agglutinin attachment subunit precursor ; a-agglutinin core protein AGA1 - yeast (Saccharomyces cerevisiae) ; (M60590) a-agglutinin core subunit [Saccharomyces cerevisiae] ; (Z71659) ORF YNR044w [Saccharomyces cerevisiae]
23399	ENU07193	ANI61C2555: 2559..2969	22-45	428-447	LINAP		g1389841	380	122	2.00E-27	50	26	(Z99165) hypothetical protein [Schizosaccharomyces pombe] (U59303) glucoamylase precursor [Aspergillus awamori]
23400	ENU07194	ANI61S4557: 221..599	32-51	328-347	LINAP		g1667474	69	61	0.000000			(U75445) alpha-amylase [Bacillus sp. MK 716]
23401	ENU07195	ANI61S4598: 480..1	61-85	443-469	LINAP		g462367	212	106	1.00E-22	33	3	HC-toxin synthetase (HTS) ; (M98024) HC-toxin synthetase [Cochliobolus carbonum]
23402	ENU07196	ANI61C347:3 07..1	118-137	443-462	LINAP		g2342610	88	43	0.000000	32	21	(Z98741) oxidoreductase [Mycobacterium leprae]
23403	ENU07197	ANI61S4611: 1..391	33-53	334-353	LINAP		g1351692	194	92	2.00E-18	37	19	hypothetical 73.1 KD protein C3H1.09C in chromosome I ; (Z68144) major facilitator superfamily protein [Schizosaccharomyces pombe]
23404	ENU07198	ANI61C2593: 1288..568	56-75	667-689	LINAP		g1050752	110	60	6.00E-12			(Z50144) kynurenine/alpha-aminoadipate aminotransferase [Rattus norvegicus]
23405	ENU07199	ANI61C3538: 1607..354	48-75	810-829	LINAP		g1750122	303	57	1.00E-11			"(U66480) xylan beta-1,4-xylosidase [Bacillus subtilis] ; (Z99113) xylan beta-1,4-xylosidase [Bacillus subtilis] "

66660"00911111

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23406	ENU07200	ANI61C7098:1349..2123			LINAP		g416820	447	205	3.00E-52	48	57	para-hydroxybenzoate—polyprenyltransferase precursor (PHB:polyprenyltransferase) ; para-hydroxybenzoate--polyprenyltransferase - yeast (Saccharomyces cerevisiae) ; (M81698) p-hydroxybenzoate:polyprenyl transferase [Saccharomyces cerevisiae] ; (Z71656) ORF YNR041c [Saccharomyces cerevisiae] "(AF008220) SHCHC synthase [Bacillus subtilis] ; (Z99119) 2-oxoglutarate decarboxylase and 2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylate synthase [Bacillus subtilis] "
23407	ENU07201	ANI61S53:1..551			LINAP		g2293146	370	165	2.00E-40	49	31	Ammonium transporter MEP2 ; ammonium transport protein MEP2 - yeast (Saccharomyces cerevisiae) ; (X83608) ammonium transporter [Saccharomyces cerevisiae] ; (Z46843) NH3 permease [Saccharomyces cerevisiae] ; (Z71418) ORF YNL142w [Saccharomyces cerevisiae] (AL031004) RNA lariat debranching enzyme - like protein [Arabidopsis thaliana]
23408	ENU07202	ANI61C2584:60-791..1175		790-809	LINAP		g1170922	725	169	8.00E-60	44	53	Bud site selection protein BUD6 (actin interacting protein 3) ; actin-interacting protein AIP3 - yeast (Saccharomyces cerevisiae) ; (U20618) Bud6p: actin interacting protein [Saccharomyces cerevisiae] ; (U35668) Aip3p [Saccharomyces cerevisiae] (Z99107) similar to pet112-like protein [Bacillus subtilis]
23409	ENU07203	ANI61C7071:24-432672..1828		791-810	LINAP		g3281851	707	251	4.00E-66	54	60	beta-glucuronidase - Escherichia coli ; (Z32701) beta-glucuronidase [synthetic construct]
23410	ENU07204	ANI61C7679:22-41361..1632		802-829	LINAP		g1168699	432	159	2.00E-38	37	34	
23411	ENU07205	ANI61S559:549..1			LINAP		g2632983	462	139	3.00E-50	59	43	
23412	ENU07206	ANI61C2598:66-891..460		375-394	LINAP		g541048	457	196	6.00E-50	62	25	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23413	ENU07207	ANI61C355:3 085..1963	22-45	807-828	LINAP		g2136300	492	34	1			transcription factor NFATx - human ; (U14510) NFATx [Homo sapiens]
23414	ENU07208	ANI61C7071: 3980..6963			LINAP		g1799570	680	105	2.00E-27	39	19	(D87671) TIP120 [Rattus norvegicus]
23415	ENU07209	ANI61S577:1. 314	62-81	249-272	LINAP		g2225966	112	53	0.000000	29	27	(Z97193) hypothetical protein Rv1894c [Mycobacterium tuberculosis]
23416	ENU07210	ANI61C7706: 1007..584	30-51	454-476	LINAP		g126643	63	55	0.000000			Aminoacidipate-semialdehyde dehydrogenase large subunit (alpha-aminoacidipate reductase) (alpha-AR) ; L-aminoacidipate-semialdehyde dehydrogenase (EC 1.2.1.31) - yeast (Saccharomyces cerevisiae) ; (M36287) alpha-aminoacidipate reductase (LYS2; EC 1.2.1.31) [Saccharomyces cerevisiae] ; (X78993) alpha-aminoacidipate reductase [Saccharomyces cerevisiae] ; (Z35984) ORF YBR115c [Saccharomyces cerevisiae] ; (AD001531) alpha-aminoacidipate reductase [Cloning vector pGR8]
23417	ENU07211	ANI61C3550: 3384..4143	22-44	691-710	LINAP		g3876027	147	92	5.00E-18	34	16	(Z78062) cDNA EST EMBL:D34090 comes from this gene; cDNA EST EMBL:D37114 comes from this gene; cDNA EST EMBL:D64639 comes from this gene; cDNA EST EMBL:D67728 comes from this gene; cDNA EST EMBL:C12617 comes from this gene; cDN...
23418	ENU07212	ANI61S77:33 8..1			LINAP		g2492657	336	149	1.00E-35	62	8	putative sterigmatocystin biosynthesis fatty acid synthase alpha subunit ; (U34740) putative fatty acid synthase alpha [Emmericella nidulans]

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23419	ENU07213	ANI61C7674: 29-52 3380..2309	5 pos	802-829	LINAP	g1730824	363	60	5.00E-10	40	42		hypothetical 56.6 KD protein in URE2-SSU72 intergenic region ; hypothetical protein YNL223w - yeast (Saccharomyces cerevisiae) ; (Z69381) N1274 [Saccharomyces cerevisiae] ; (Z71499) ORF YNL223w [Saccharomyces cerevisiae]
23420	ENU07214	ANI61S79:1..595			LINAP	g127736	183	94	1.00E-18	30	12		myo2 SIN-2 isoform ; myosin myo2 - yeast (Saccharomyces cerevisiae) ; (M35532) myosin I isoform (myo2) [Saccharomyces cerevisiae] ; (Z75234) ORF YOR326w [Saccharomyces cerevisiae]
23421	ENU07215	ANI61C7677: 49-68 4030..3702	49-68	457-479	LINAP	g607855	120	61	0.000000				(U11098) hydroxyindole-O-methyltransferase [Homo sapiens]
23422	ENU07216	ANI61S816:1..318			LINAP	g728913	135	74	4.00E-13	33	11		"MG(2+) transport ATPase, P-type 1 ; (AE000495) Mg2+ transport ATPase, P-type 1 [Escherichia coli]"
23423	ENU07217	ANI61C2621: 34-61 1731..3003	34-61	794-813	LINAP	g2132651	473	155	3.00E-37	33	47		probable membrane protein YLL028w - yeast (Saccharomyces cerevisiae) ; (Z73133) ORF YLL028w [Saccharomyces cerevisiae]
23424	ENU07218	ANI61C3547: 52-71 3428..1912	52-71	766-785	LINAP	g140201	1005	206	8.00E-67	55	28		protein kinase YAK1 ; protein kinase YAK1 (EC 2.7.1.-) - yeast (Saccharomyces cerevisiae) ; (X16056) Yak1 kinase (AA 1 - 807) [Saccharomyces cerevisiae] ; (X87371) protein kinase [Saccharomyces cerevisiae] ; (Z49417) ORF YJL141c [Saccharomyces cerevisiae]
23425	ENU07219	ANI61C7112: 114-133 1..425	114-133	360-380	LINAP	g4539606	195	73	8.00E-13	39	65		[Saccharomyces cerevisiae] (AL049522) hypothetical DNAJ domain protein [Schizosaccharomyces pombe]
23426	ENU07220	ANI61C2637: 106-126 1..497	106-126	452-476	LINAP	g2924449	42	37	0.1				(AL020222) PE_PGERS [Mycobacterium tuberculosis]

Genomic Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23427	ENU07221	ANI61C7691: 22-47 2634..5362		647-666	LINAP		g3915963	1425	228	3.00E-59	47	16	ATP-dependent bile acid permease ; probable membrane protein YLL048c - yeast (Saccharomyces cerevisiae) ; (Z73153) ORF YLL048c [Saccharomyces cerevisiae] 3-isopropylmalate dehydratase (EC 4.2.1.33) - Phycomyces blakesleeanus ; (X53090) alpha-isopropylmalate isomerase (AA 1-689) [Phycomyces blakesleeanus] "serine-type carboxypeptidase - Penicillium janthinellum ; carboxypeptidase S3, penicillopeptidase S3, CPD-S3 [Penicillium janthinellum, IBT 3991, Peptide, 481 aa] "
23428	ENU07222	ANI61C8374: 29-48 36..1769		771-796	LINAP		g283065	1718	351	3.00E-96	64	40	
23429	ENU07223	ANI61S846:1. 68-89 .365		206-225	LINAP		g1363903	233	115	1.00E-25	51	24	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23430	ENU07224	ANI61C8374: 1922..2257	28-48	317-336	LINAP		g3135546	492	203	9.00E-52			(AF061918) Tn5 transposase [Plasposon pTnMod-OCm] ; (AF061919) Tn5 transposase [Plasposon pTnMod-OCm'] ; (AF061920) Tn5 transposase [Plasposon pTnMod-OGm] ; (AF061923) Tn5 transposase [Plasposon pTnMod-SmO] ; (AF061924) Tn5 transposase [Plasposon pTnMod-OTc] ; (AF061925) Tn5 transposase [Plasposon pTnMod-OTc'] ; (AF061926) Tn5 transposase [Plasposon pTnMod-OTp'] ; (AF061927) Tn5 transposase [Plasposon pTnMod-CmOTc] ; (AF061928) Tn5 transposase [Plasposon pTnMod-Cm'OTc] ; (AF061929) Tn5 transposase [Plasposon pTnMod-RCm] ; (AF061930) Tn5 transposase [Plasposon pTnMod-RKm'] ; (AF061931) Tn5 transposase [Plasposon pTnMod-RTp']
23431	ENU07225	ANI61S907:3 52..1			LINAP		g3914818	131	57	0.00000008			DNA-directed RNA polymerase I largest subunit ; (Y09103) largest subunit of RNA polymerase I (A) [Drosophila melanogaster]
23432	ENU07226	ANI61C7114: 482..1158			LINAP		g548771	577	117	1.00E-51	53	53	60S ribosomal protein L3-2 ; ribosomal protein L3 - fission yeast (Schizosaccharomyces pombe) ; (X57734) ribosomal protein L3 [Schizosaccharomyces pombe]
23433	ENU07227	ANI61C7698: 23-45 3196..1151	23-45	775-801	LINAP		g399299	1580	225	5.00E-74	61	26	chromosome region maintenance protein 1 ; (X15482) crml product [Schizosaccharomyces pombe]

GenBank - GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23434	ENU07228	ANI61C8392: 507..884	40-60	454-475	LINAP		g131768	35	66	2.00E-10			quininate permease (quininate transporter) ; quininate transport protein - Emericella nidulans ; (X13525) quininate permease [Emericella nidulans]
23435	ENU07229	ANI61C2616: 22-45 2660..4618	22-45	802-829	LINAP		g547888	1218	130	4.00E-46	40	38	probable malate oxidoreductase (NAD) (malic enzyme) (ME) ; malate dehydrogenase homolog YKL029c - yeast (Saccharomyces cerevisiae) ; (Z28029) ORF YKL029c [Saccharomyces cerevisiae]
23436	ENU07230	ANI61C7114: 22-49 3961..4544	22-49	536-563	LINAP		g2498505	179	51	2.00E-14	43	21	beta-glucan synthesis-associated protein KRE6 ; (D88490) CaKRE6 [Candida albicans]
23437	ENU07231	ANI61C7710: 36-55 2928..3343	36-55	456-479	LINAP		g3150252	77	55	0.000000	27	21	(AL023634) hypothetical protein [Schizosaccharomyces pombe]
23438	ENU07232	ANI61C2641: 30-49 1214..2159	30-49	806-828	LINAP		g3378617	463	107	2.00E-41	44	78	(Y16675) aflatoxin B1-aldehyde reductase [Homo sapiens]
23439	ENU07233	ANI61C7128: 47-66 669..1472	47-66	682-703	LINAP		g731893	414	108	7.00E-40	47	37	putative transporter YIL166C ; probable membrane protein YIL166c - yeast (Saccharomyces cerevisiae) ; (Z46921) unknown [Saccharomyces cerevisiae]
23440	ENU07234	ANI61C7693: 26-53 3032..1965	26-53	796-815	LINAP		g2642224	173	90	2.00E-17	28	36	(AF030886) telomere-associated recQ-like helicase [Ustilago maydis]
23441	ENU07235	ANI61C8379: 22-47 1661..911	22-47	702-729	LINAP		g294845	220	74	1.00E-20	33	64	(L13655) membrane protein [Saccharum hybrid cultivar H65-7052]
23442	ENU07236	ANI61C2649: 24-43 1079..1544	24-43	453-479	LINAP		g2894166	70	75	4.00E-13			(AJ223998) PCZA361.18 [Amycolatopsis orientalis]
23443	ENU07237	ANI61C7110: 22-49 1636..43	22-49	768-786	LINAP		g3150261	1132	241	4.00E-63	56	37	(AL023634) protein kinase dsk1 [Schizosaccharomyces pombe]
23444	ENU07238	ANI61C8381: 25-44 355..666	25-44	432-451	LINAP		g2808634	72	56	0.000000	29	13	(AJ001909) transcriptional activator [Aspergillus niger]
23445	ENU07239	ANI61C2655: 33-52 1026..1	33-52	770-789	LINAP		g4468097	516	131	3.00E-40	42	45	(AJ223504) amino acid transporter [Amanita muscaria]
23446	ENU07240	ANI61C351:2 29-48 822..1	29-48	712-730	LINAP		g2342601	1597	194	9.00E-49	40	5	(X89442) peptide synthetase [Metarhizium anisopliae]

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted October 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23447	ENU07241	ANI61C7141: 1134..2760	22-44	720-739	LINAP		g1351624	905	69	4.00E-11	45	23	hypothetical 122.9 KD protein C29E6.10C in chromosome I; (Z66525) unknown [Schizosaccharomyces pombe]
23448	ENU07242	ANI61C8385: 42-69 3918..3469	42-69	452-479	LINAP		g1723076	82	74	6.00E-13	32	27	hypothetical 57.3 KD protein GMC-type oxidoreductase CY50.03C; (Z77137) hypothetical protein Rv1279 [Mycobacterium tuberculosis] (U46857) vitellogenin [Anolis pulchellus] (D90917) eukaryotic protein kinase [Synecocystis sp.] (D42138) PIG-B [Homo sapiens]
23449	ENU07243	ANI61C7137: 60-79 1126..763	60-79	412-431	LINAP		g1197667	86	37	0.08			glycerate dehydrogenase (NADH-dependent hydroxypyruvate reductase) (HPR) (GDH) (hydroxypyruvate dehydrogenase) (glyoxylate reductase) (HPR-A)
23450	ENU07244	ANI61C8400: 45-64 1308..1782	45-64	430-449	LINAP		g1653955	94	43	0.001			hypothetical 72.2 KD protein C12C2.05C in chromosome II; (Z54140) hypothetical protein [Schizosaccharomyces pombe]
23451	ENU07245	ANI61C3600: 66-85 768..1717	66-85	778-801	LINAP		g1552169	145	71	1.00E-11			Pyrimidine pathway regulatory protein 1; regulatory protein PPR1 - yeast (Saccharomyces cerevisiae); (X01739) regulatory protein (AA 1-904) [Saccharomyces cerevisiae]; (Z73186) ORF YLR014c [Saccharomyces cerevisiae]
23452	ENU07246	ANI61C7678: 25-44 2208..1435	25-44	710-729	LINAP		g2494084	259	147	7.00E-35	40	78	melanin biosynthetic polyketide synthase PKS1 - Colletotrichum lagenarium; (D83643) polyketide synthase [Colletotrichum lagenarium]
23453	ENU07247	ANI61C2687: 32-56 376..1	32-56	383-403	LINAP		g1175425	159	84	5.00E-16	30	25	
23454	ENU07248	ANI61C3566: 32-54 5338..6011	32-54	488-507	LINAP		g130784	85	61	0.000000			
23455	ENU07249	ANI61C7136: 36-55 827..1	36-55	698-725	LINAP		g2147662	535	209	2.00E-53	50	12	

Genes - orthologs

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23456	ENU07250	ANI61C7678: 5186..2864	22-47	797-824	LINAP		g136232	1429	285	3.00E-76	50	31	"potassium transport protein, low-affinity ; potassium transport protein TRK2, low-affinity - yeast (Saccharomyces cerevisiae) ; (M65215) TRK2 [Saccharomyces cerevisiae] ; (Z28275) ORF YKR050w [Saccharomyces cerevisiae] "
23457	ENU07251	ANI61C3588: 22-47 1848..672	22-47	794-813	LINAP		g32709	1009	295	3.00E-79	59	54	[Saccharomyces cerevisiae] "
23458	ENU07252	ANI61C2675: 27-46 218..1168	27-46	802-829	LINAP		g3318897	290	95	1.00E-19	39	33	"Chain A, Phenol Hydroxylase From Trichosporon Cutaneum ; Chain B, Phenol Hydroxylase From Trichosporon Cutaneum ; Chain C, Phenol Hydroxylase From Trichosporon Cutaneum ; Chain D, Phenol Hydroxylase From Trichosporon Cutaneum "
23459	ENU07253	ANI61C8388: 22-43 1335..1755	22-43	439-457	LINAP		g2624328	125	43	2.00E-12			(AJ002894) OsGRP2 [Oryza sativa]
23460	ENU07254	ANI61C8388: 5001..3984			LINAP		g2506137	281	123	1.00E-27	33	8	"Erythronolide synthase, modules 5 and 6 (ORF 3) (6-deoxyerythronolide B synthase III) (DEBS 3) ; 6-deoxyerythronolide B synthase III - Saccharopolyspora erythraea ; (X62569) 6-deoxyerythronolide B synthase III [Saccharopolyspora erythraea] "
23461	ENU07255	ANI61C7738: 941..1734			LINAP		g3417427	144	35	0.73	30	57	(AL031262) hypothetical protein [Schizosaccharomyces pombe]
23462	ENU07256	ANI61C7743: 41-60 1610..1993	41-60	431-450	LINAP		g231551	146	53	0.000001	29	9	"Ankyrin, brain variant 2 (ankyrin B) (ankyrin, nonerythroid) "
23463	ENU07257	ANI61C7740: 36-55 3137..1	36-55	711-730	LINAP		g731871	790	136	3.00E-31	32	11	"hypothetical 269.9 KD protein in FKHI1-MET18 intergenic region ; probable membrane protein YIL129c - yeast (Saccharomyces cerevisiae) ; (Z38059) orf, len: 2376, CAI: 0.14 [Saccharomyces cerevisiae] "
23464	ENU07258	ANI61C8420: 1..1751			LINAP		g522302	866	187	1.00E-46	42	23	(L35053) endonuclease [Magnaporthe grisea]

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23465	ENU07259	ANI61C3612: 749..1	28-47	608-632	LINAP		g2440190	166	113	2.00E-24	35	13	(Z98602) putative protein transport protein sec7 homolog [Schizosaccharomyces pombe]
23466	ENU07260	ANI61C7168: 1075..1	22-43	713-732	LINAP		g549738	128	51	1.00E-13			hypothetical amino-acid permease in STE3-GIN10 intergenic region ; probable transport protein YKL174c - yeast (Saccharomyces cerevisiae) ; (Z26878) unknown [Saccharomyces cerevisiae] ; (Z28174) ORF YKL174c [Saccharomyces cerevisiae] ; ORF [Saccharomyces cerevisiae]
23467	ENU07261	ANI61C7739: 777..1	71-90	646-673	LINAP		g2330791	457	171	9.00E-48	43	39	(Z98601) carboxypeptidase s precursor [Schizosaccharomyces pombe]
23468	ENU07262	ANI61C3597: 2921..2073	22-47	784-809	LINAP		g1652017	298	136	3.00E-31	33	87	(D90901) hypothetical protein [Synecocystis sp.]
23469	ENU07263	ANI61C7150: 321..2402	83-107	805-829	LINAP		g1213484	447	39	0.031			(U41740) trans-Golgi p230 [Homo sapiens] ; peripheral membrane protein p230 [Homo sapiens]
23470	ENU07264	ANI61C8351: 9042..8303	22-44	686-713	LINAP		g2132871	187	104	7.00E-22	36	47	probable membrane protein YOR059c - yeast (Saccharomyces cerevisiae) ; (Z74967) ORF YOR059c [Saccharomyces cerevisiae] ; (Z70678) YOR29-10 [Saccharomyces cerevisiae] (AL023776) hypothetical protein [Schizosaccharomyces pombe]
23471	ENU07265	ANI61C3638: 1001..600	22-48	452-479	LINAP		g3184056	90	78	3.00E-14			[Schizosaccharomyces pombe]
23472	ENU07266	ANI61C7176: 1912..1502	24-48	424-448	LINAP		g3402751	120	79	2.00E-14	29	8	(AL031187) putative protein [Arabidopsis thaliana]
23473	ENU07267	ANI61C352:1 0337..11129	37-56	740-759	LINAP		g3023852	1460	268	3.00E-71	90	55	guanine nucleotide-binding protein beta subunit-like protein (cross-pathway control WD-repeat protein CPC-2) ; CPC2 protein - Neurospora crassa ; (X81875) CPC2 protein [Neurospora crassa]

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23474	ENU07268	ANI61C7151: 22-44 4911..4133	22-44	739-758	LINAP		g728850	166	43	0.002			"glucoamylase S1/S2 precursor (glucan 1,4-alpha-glucosidase) (1,4-alpha-D-glucan glucohydrolase) ; glucan 1,4-alpha-glucosidase (EC 3.2.1.3) - yeast (Saccharomyces cerevisiae) ; (Z38061) mal5, stal, len: 1367, CAI: 0.3, AMYH_YEAST P08640 glucoamylase S1 (EC 3.2.1.3) [Saccharomyces cerevisiae] ; (U30626) glucoamylase [Saccharomyces cerevisiae var. diastaticus]"
23475	ENU07269	ANI61C8436: 22-47 1225..1548	22-47	459-479	LINAP		g731632	279	96	2.00E-19	53	20	hypothetical 57.0 KD protein in SOD2-RPL27 intergenic region ; hypothetical protein YHR009c - yeast (Saccharomyces cerevisiae) ; (U10400) Yhr009cp [Saccharomyces cerevisiae] (Z29098) transposase (putative) [Drosophila hydei] (Z98763) putative Inositol polyphosphate phosphatase [Schizosaccharomyces pombe] hypothetical 49.3 KD protein C30D11.06C in chromosome I ; hypothetical protein SPAC30D11.06c - fission yeast (Schizosaccharomyces pombe) ; (Z67961) hypothetical protein [Schizosaccharomyces pombe] hypothetical 70.2 KD protein C22E12.10C in chromosome I ; (Z70043) unknown
23476	ENU07270	ANI61C7182: 1867..908			LINAP		g436464	187	102	4.00E-21			[Schizosaccharomyces pombe]
23477	ENU07271	ANI61C7731: 57-76 1286..4662	57-76	805-823	LINAP		g2370558	1186	175	3.00E-52	46	22	[Schizosaccharomyces pombe] hypothetical 49.3 KD protein C30D11.06C in chromosome I ; hypothetical protein SPAC30D11.06c - fission yeast (Schizosaccharomyces pombe) ; (Z67961) hypothetical protein [Schizosaccharomyces pombe] hypothetical 70.2 KD protein C22E12.10C in chromosome I ; (Z70043) unknown
23478	ENU07272	ANI61C3629: 30-49 4217..3351	30-49	806-829	LINAP		g1351659	124	64	0.000000	32	50	[Schizosaccharomyces pombe] hypothetical 49.3 KD protein C30D11.06C in chromosome I ; hypothetical protein SPAC30D11.06c - fission yeast (Schizosaccharomyces pombe) ; (Z67961) hypothetical protein [Schizosaccharomyces pombe] hypothetical 70.2 KD protein C22E12.10C in chromosome I ; (Z70043) unknown
23479	ENU07273	ANI61C3668: 91-110 1190..445	91-110	703-725	LINAP		g1723522	566	212	2.00E-54	51	38	[Schizosaccharomyces pombe] hypothetical 70.2 KD protein C22E12.10C in chromosome I ; (Z70043) unknown
23480	ENU07274	ANI61C3642: 37-63 2958..5308	37-63	709-736	LINAP		g2117720	1875	305	3.00E-82	56	31	[Schizosaccharomyces pombe] glycogen phosphorylase (EC 2.4.1.1) - yeast (Saccharomyces cerevisiae) ; (U28371) Glycogen phosphorylase (Swiss Prot. accession number P06738) [Saccharomyces cerevisiae]
23481	ENU07275	ANI61C7178: 22-49 2739..278	22-49	803-829	LINAP		g3163925	609	108	7.00E-23	27	12	[Schizosaccharomyces pombe] glycogen phosphorylase (EC 2.4.1.1) - yeast (Saccharomyces cerevisiae) ; (U28371) Glycogen phosphorylase (Swiss Prot. accession number P06738) [Saccharomyces cerevisiae] (Y17317) polyketide synthase [Aspergillus fumigatus]

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23482	ENU07276	ANI61C8422: 360..1299	104-123	783-801	LINAP		g4097158	155	107	9.00E-23	26	12	(U46488) NrpS [Proteus mirabilis]
23483	ENU07277	ANI61C8422: 94-113	701-718		LINAP		g4499843	184	53	0.000003	27	37	(AJ011965) oxidoreductase [Claviceps purpurea]
23484	ENU07278	ANI61C843:1 4025..4843			LINAP		g3618210	74	39	0.031	33	53	(AL031579) hypothetical protein [Schizosaccharomyces pombe]
23485	ENU07279	ANI61C7744: 101..1990	22-46	804-829	LINAP		g482458	1195	167	2.00E-64	62	45	methionyl aminopeptidase (EC 3.4.11.18) 2 - rat ; (L10652) initiation factor 2 associated 67 kDa protein [Rattus rattus]
23486	ENU07280	ANI61C8417: 34-53	804-829		LINAP		g2408035	750	73	2.00E-12	30	29	(Z99163) probable beta-adaptin clathrin assembly protein [Schizosaccharomyces pombe]
23487	ENU07281	ANI61C3674: 23-45	460-483		LINAP		g1352731	63	52	0.000004	27	28	putative protein disulfide isomerase C1F5.02 precursor ; (Z68136) unknown [Schizosaccharomyces pombe]
23488	ENU07282	ANI61C7744: 22-46	460-479		LINAP		g4567282	92	49	0.000000			(AC006841) putative DNAB protein [Arabidopsis thaliana]
23489	ENU07283	ANI61C7767: 22-45	807-829		LINAP		g2381494	1072	359	1.00E-98	60	47	(AB005589) Srw1 [Schizosaccharomyces pombe]
23490	ENU07284	ANI61C8444: 48-67	448-467		LINAP		g417106	91	54	0.000000	27	71	2-haloalkanoic acid dehalogenase I (L-2-haloacid dehalogenase I) (halocarboxylic acid halidohydrolyase I) (DEHCl) ; 2-haloacid dehalogenase (EC 3.8.1.2) I - Pseudomonas sp ; (M62908) 2-haloalkanoic acid dehalogenase I [Pseudomonas sp.] sericin MG-2 - greater wax moth (fragments)
23491	ENU07285	ANI61C3654: 31-50	703-726		LINAP		g1083944	136	38	0.06			(AE001142) glutamyl-tRNA synthetase (gltX) [Borrelia burgdorferi]
23492	ENU07286	ANI61C7794: 22-41	784-811		LINAP		g2688265	622	191	5.00E-50	44	47	(AL034443) putative integral membrane efflux protein [Streptomyces coelicolor]
23493	ENU07287	ANI61C3645: 25-44	710-730		LINAP		g4007671	186	50	2.00E-12	26	43	
		3080..3830											

Genomic Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23494	ENU07288	ANI61C7797: 1..319			LINAP		g731649	102	61	0.000000	28	22	hypothetical 53.4 KD protein in SLT2-PUT2 intergenic region ; hypothetical protein YHR036w - yeast (Saccharomyces cerevisiae) ; (U00062) Yhr036wp [Saccharomyces cerevisiae] protein kinase DSK1 (DIS1-suppressing protein kinase) ; dis1-suppressing protein kinase dsk1 - fission yeast (Schizosaccharomyces pombe) ; (D13447) protein kinase [Schizosaccharomyces pombe] (Z95436) hypothetical protein Rv3633 [Mycobacterium tuberculosis] hypothetical 78.3 KD protein in RIP1-URA3 intergenic region ; hypothetical protein YEL023c - yeast (Saccharomyces cerevisiae) ; (U18530) Yel023cp [Saccharomyces cerevisiae] Topoisomerase I-related protein TRF4 ; topoisomerase I-related protein TRF4 - yeast (Saccharomyces cerevisiae) ; (Z48149) ORF [Saccharomyces cerevisiae] ; (U31355) Trf4p [Saccharomyces cerevisiae] ; (Z74857) ORF YOL115w [Saccharomyces cerevisiae] (AC000133) ORF [Emericella nidulans] sodium/potassium-transporting ATPase alpha chain (sodium PUMP) (NA+/K+ ATPase) ; Na+/K+-exchanging ATPase (EC 3.6.1.37) alpha chain - white sucker ; (X58629) adenosinetriphosphatase [Catostomus commersoni] (L35601) ankyrin [Drosophila melanogaster] ; ankyrin [Drosophila melanogaster]
23495	ENU07289	ANI61C8443: 1..410	137-164	364-389	LINAP		g544191	109	68	2.00E-11	37	21	
23496	ENU07290	ANI61C3624: 22-48 7327..7005		455-477	LINAP		g2105061	69	54	0.000000	29	40	
23497	ENU07291	ANI61C3690: 22-49 1906..1	22-49	713-730	LINAP		g731409	261	63	0.000000	22	36	
23498	ENU07292	ANI61C7806: 23-45 2837..1468	23-45	611-630	LINAP		g1717744	299	152	3.00E-36	35	43	
23499	ENU07293	ANI61C3682: 22-46 1684..2391	22-46	660-687	LINAP		g1870209	265	48	0.000000			
23500	ENU07294	ANI61C7809: 25-52 3008..3729	25-52	676-701	LINAP		g114386	221	57	4.00E-18	36	21	
23501	ENU07295	ANI61C3648: 22-41 6002..4666	22-41	762-789	LINAP		g557084	387	90	2.00E-17			

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23502	ENU07296	ANI61C7778: 32-51 7591..4646	32-51	768-788	LINAP		g2133248	2998	267	8.00E-71	66	26	chitin synthase (EC 2.4.1.16) C - Aspergillus fumigatus ; (X94245) chitin synthase C [Aspergillus fumigatus]
23503	ENU07297	ANI61C3644: 37-56 5841..6454	37-56	568-593	LINAP		g2645229	502	146	2.00E-34	37	41	(U78597) kinesin light chain [Plectonema boryanum]
23504	ENU07298	ANI61C7841: 22-45 1..460	22-45	372-391	LINAP		g1145799	61	48	0.00005	31	20	(U41806) p60 [Homo sapiens]
23505	ENU07299	ANI61C8492: 104-123 828..1277	104-123	315-338	LINAP		g1870209	625	231	2.00E-60	92	27	(AC000133) ORF [Emericella nidulans]
23506	ENU07300	ANI61C3677: 22-44 2990..1456	22-44	802-829	LINAP		g4107287	167	124	7.00E-28	30	54	(AL035076) putative allantoate permease [Schizosaccharomyces pombe]
23507	ENU07301	ANI61C8488: 22-44 2067..1752	22-44	419-438	LINAP		g2702312	60	49	0.00002			(U76556) antigen N54 [Neospora sp.]
23508	ENU07302	ANI61C3705: 102-120 1..655	102-120	590-609	LINAP		g464786	179	95	4.00E-19	33	33	SPT10 protein ; regulatory protein SPT10 - yeast (Saccharomyces cerevisiae) ; (L24435) SPT10 [Saccharomyces cerevisiae] ; (Z49402) ORF YJL127c [Saccharomyces cerevisiae]
23509	ENU07303	ANI61C7845: 24-44 1409..1091	24-44	267-294	LINAP		g3581903	189	84	3.00E-16	42	17	(AL031545) DEAD box ATP-dependent RNA helicase [Schizosaccharomyces pombe]
23510	ENU07304	ANI61C3693: 22-44 5491..6885	22-44	635-654	LINAP		g117619	305	77	2.00E-18	29	45	choline transport protein ; choline transport protein - yeast (Saccharomyces cerevisiae) ; (J05603) choline transport protein [Saccharomyces cerevisiae] ; (Z72599) ORF YGL077c [Saccharomyces cerevisiae]
23511	ENU07305	ANI61C7850: 28-51 814..1452	28-51	589-608	LINAP		g1805251	348	162	2.00E-39	40	38	(U58946) transposase [Aspergillus awamori]
23512	ENU07306	ANI61C7862: 671..286			LINAP		g1084952	88	76	1.00E-13			hypothetical protein YPR031w - yeast (Saccharomyces cerevisiae) ; (Z49274) unknown [Saccharomyces cerevisiae] ; (Z71255) unknown [Saccharomyces cerevisiae]

Accession

Seq num	Seq id	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23513	ENU07307	Contig source ANI61C7819: 48-72 1485..2608	807-829	LINAP		g1346290	364	72	3.00E-23	28	42	high-affinity glucoSE transporter ; (U22525) high affinity glucose transporter [Kluyveromyces lactis] (AF052688) putative transmembrane transporter Liz1p [Schizosaccharomyces pombe] ; [Schizosaccharomyces pombe] ; (AL023706) transmembrane transporter Liz1p [Schizosaccharomyces pombe] (AL021409) polyketide synthase [Streptomyces coelicolor] probable membrane protein YDL133w - yeast (Saccharomyces cerevisiae) ; (X96876) putative ORF [Saccharomyces cerevisiae] ; (Z74181) ORF YDL133w [Saccharomyces cerevisiae]
23514	ENU07308	ANI61C3737: 63-82 1184..287	765-784	LINAP		g2981103	202	65	6.00E-10	27	43	aminopeptidase Y precursor ; aminopeptidase Y (EC 3.4.11.-) - yeast (Saccharomyces cerevisiae) ; (L31635) aminopeptidase Y [Saccharomyces cerevisiae] ; (X76053) YBR2024-ORF [Saccharomyces cerevisiae] ; (Z36155) ORF YBR286w [Saccharomyces cerevisiae] ; ORF YBR2024 [Saccharomyces cerevisiae] (Z69254) alpha-galactosidase [Hypocrea jecorina] (AF023132) choline monoxygenase [Beta vulgaris] "lignostilbene alphabeta-dioxygenase (EC 1.13.11.43) III isozyme beta chain - Pseudomonas paucimobilis ; (S80637) lignostilbene-alpha,beta-dioxygenase isozyme III, LSD-III [Pseudomonas paucimobilis, TMY1009, Peptide, 489 aa] [Sphingomonas paucimobilis] "
23515	ENU07309	ANI61C8485: 25-52 5622..3617	804-829	LINAP		g2808753	601	112	4.00E-24	31	11	
23516	ENU07310	ANI61C3786: 22-44 932..1412	366-385	LINAP		g2132440	183	96	2.00E-19	33	37	
23517	ENU07311	ANI61C7870: 31-51 1128..2120	808-825	LINAP		g584764	542	212	3.00E-54			
23518	ENU07312	ANI61C3744: 90-109 843..1	712-731	LINAP		g1580818	674	245	3.00E-69	55	33	
23519	ENU07313	ANI61C8510: 24-51 3106..2623	449-476	LINAP		g2522210	111	48	0.000000			
23520	ENU07314	ANI61C3730: 24-50 1373..619	686-713	LINAP		g2120665	447	189	1.00E-47	44	46	

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23521	ENU07315	ANI61C787:1 418..3186	22-49	803-829	LINAP		g3581916	1423	250	7.00E-66	44	22	(AL031545) muts family DNA mismatch repair protein
23522	ENU07316	ANI61C7869: 22-46 2737..1530		799-817	LINAP		g3318897	95	80	2.00E-14	31	36	[Schizosaccharomyces pombe] "Chain A, Phenol Hydroxylase From Trichosporon Cutaneum ; Chain B, Phenol Hydroxylase From Trichosporon Cutaneum ; Chain C, Phenol Hydroxylase From Trichosporon Cutaneum ; Chain D, Phenol Hydroxylase From Trichosporon Cutaneum "
23523	ENU07317	ANI61C3743: 39-59 1466..3481		774-793	LINAP		g1352290	916	157	9.00E-38	38	27	DNA ligase I (polydeoxyribonucleotide synthase (ATP)) ; DNA ligase (ATP) (EC 6.5.1.1) I - mouse ; (U19604) DNA ligase I [Mus musculus] ; (U04674) DNA ligase I [Mus musculus]
23524	ENU07318	ANI61C7892: 22-47 1050..591		443-462	LINAP		g1352493	224	95	4.00E-19	36	16	"type II inositol-1,4,5-trisphosphate 5-phosphatase precursor (5PTase) ; (M74161) inositol polyphosphate 5-phosphatase [Homo sapiens] " myo-inositol transporter 2 ; (Z95334) Itr2p [Schizosaccharomyces pombe] (U24167) PAK1 [Saccharomyces cerevisiae] (U41748) coded for by C. elegans cDNA yk16f8.5; coded for by C. elegans cDNA yk55f7.5; coded for by C. elegans cDNA yk16f8.3; coded for by C. elegans cDNA yk55f7.3; coded for by C. elegans cDNA yk72a5.5; coded for by C. elegans cDNA yk72a5.3...
23525	ENU07319	ANI61C7898: 451..1			LINAP		g3219812	69	56	0.000000	26	21	
23526	ENU07320	ANI61C7913: 22-42 1522..1		620-637	LINAP		g862488	847	42	0.000000	46	12	
23527	ENU07321	ANI61C8507: 22-47 1205..896		438-457	LINAP		g1118141	51	32	3.1			
23528	ENU07322	ANI61C7899: 23-50 1..1557		794-813	LINAP		g3004863	722	238	4.00E-62	45	33	"(AF029354) exo-beta-1,3-glucanase [Ampelomyces quisqualis] "
23529	ENU07323	ANI61C7929: 22-44 1461..2302		620-643	LINAP		g3914984	282	92	2.00E-28	30	7	Ferrichrome siderophore peptide synthetase ; (U62738) ferrichrome siderophore peptide synthetase [Ustilago maydis]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23539	ENU07333	ANI61C8567: 1381..3558	22-44	810-829	LINAP		g2388584	133	35	0.61			(AC000098) EST gb ATTS1136 comes from this gene. [Arabidopsis thaliana]
23540	ENU07334	ANI61C8572: 30-49	30-49	767-791	LINAP		g2507070	236	91	8.00E-18	29	50	N amino acid transport system protein (methyltryptophan resistance protein) ; neutral amino acid permease - Neurospora crassa ; (L34605) neutral amino acid permease [Neurospora crassa]
23541	ENU07335	ANI61C8570: 28-55	28-55	436-457	LINAP		g1351653	160	100	6.00E-21			hypothetical 103.2 KD protein C24B11.10C in chromosome I ; hypothetical protein SPAC24B11.10c - fission yeast (Schizosaccharomyces pombe) ; (Z67757) unknown [Schizosaccharomyces pombe]
23542	ENU07336	ANI61C8596: 3531..2592	22-43	806-827	LINAP		g1351714	85	87	1.00E-16			putative transporter C11D3.18C ; (Z68166) unknown [Schizosaccharomyces pombe]
23543	ENU07337	ANI61C8593: 2431..3221	22-48	748-769	LINAP		g731532	813	164	2.00E-72	54	30	putative 90.2 KD zinc finger protein in CCA1-ADK2 intergenic region ; hypothetical protein YER169w - yeast (Saccharomyces cerevisiae) ; (U18922) Yer169wp [Saccharomyces cerevisiae] probable protein-tyrosine phosphatase YBR276C ; probable protein-tyrosine-phosphatase (EC 3.1.3.48) - yeast (Saccharomyces cerevisiae) ; (X76053) YBR2013-ORF [Saccharomyces cerevisiae] ; (Z36145) ORF YBR276c [Saccharomyces cerevisiae] ; ORF YBR2013 [Saccharomyces cerevisiae]
23544	ENU07338	ANI61C8552: 516..1	31-51	391-413	LINAP		g586390	99	89	2.00E-17	36	16	

66660" gene

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23545	ENU07339	ANI61C8585: 6129..7445	23-47	775-794	LINAP		g114301	877	269	2.00E-71	61	25	calcium-transporting ATPase 1 (GOLGI CA2+-ATPase) ; Ca2+-transporting ATPase (EC 3.6.1.38) PMR1 - yeast (Saccharomyces cerevisiae) ; (M25488) PMR1 protein [Saccharomyces cerevisiae] ; (X85757) calcium transporting ATPase 1 [Saccharomyces cerevisiae] ; (Z72690) ORF YGL167c [Saccharomyces cerevisiae]
23546	ENU07340	ANI61C86:53 0..4337	23-46	768-787	LINAP		g4107308	1329	106	3.00E-22	29	18	(AL035075) hypothetical TPR domain-containing protein [Schizosaccharomyces pombe]
23547	ENU07341	ANI61C8621: 3687..3212	56-75	406-425	LINAP		g1708909	184	100	7.00E-21	30	35	malic acid transport protein (malate permease) ; C4-dicarboxylate transport protein mae1 - fission yeast (Schizosaccharomyces pombe) ; (U21002) malic acid transport protein [Schizosaccharomyces pombe]
23548	ENU07342	ANI61C8630: 584..1	41-61	456-475	LINAP		g1934614	139	106	1.00E-22	33	17	(U93874) cytochrome P450 102 [Bacillus subtilis] ; (Z99117) similar to cytochrome P450 / NADPH-cytochrome P450 reductase [Bacillus subtilis]
23549	ENU07343	ANI61C864:1 ..337	39-59	296-315	LINAP		g119830	105	62	0.000000			"fatty acid synthase, subunit alpha [contains: EC 1.1.1.100; EC 2.3.1.41] ; fatty-acid synthase (EC 2.3.1.85) - Penicillium griseofulvum ; (M37461) FAS2 protein [Penicillium patulum] " (AJ223999) PCZA363.3 [Amycolatopsis orientalis]
23550	ENU07344	ANI61C8641: 396..894	52-71	456-477	LINAP		g2894188	81	42	0.000002			hypothetical 54.3 KD TRP-ASP repeats containing protein C17H9.19C in chromosome I ; (L75944) WD repeat protein [Schizosaccharomyces pombe] ; (Z98597) beta-transducin [Schizosaccharomyces pombe]
23551	ENU07345	ANI61C8625: 1107..2494	72-92	789-808	LINAP		g3219975	283	87	1.00E-16	33	41	

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23552	ENU07346	ANI61C1037 4:3791..4541	48-67	703-730	LINAP		g3876092	350	108	1.00E-35	43	30	(Z69635) Similarity to Drosophila white protein (SW:WHIT_DROME); cDNA EST EMBL:M89346 comes from this gene; cDNA EST yk311f2.3 comes from this gene; cDNA EST yk311f2.5 comes from this gene [Caenorhabditis elegans]
23553	ENU07347	ANI61C1038 3:4832..4388	22-49	458-476	LINAP		g2131767	116	55	0.000000	37	62	hypothetical protein YLR074c - yeast (Saccharomyces cerevisiae) ; (Z73246) ORF YLR074c [Saccharomyces cerevisiae]
23554	ENU07348	ANI61C1040 7:1418..1956			LINAP		g1346782	1092	201	2.00E-51			Serine/threonine protein phosphatase PP-X isozyme 1 ; phosphoprotein phosphatase (EC 3.1.3.16) X-1 (clone EP129) - Arabidopsis thaliana ; (Z22587) protein phosphatase [Arabidopsis thaliana] ; (AF030289) protein phosphatase X isoform 1 [Arabidopsis thaliana] ; (AL035440) phosphoprotein phosphatase (PPX-1) [Arabidopsis thaliana]
23555	ENU07349	ANI61C1040 2:2381..2038	22-46	449-468	LINAP		g1078089	98	52	0.000004	26	33	hypothetical protein YLR423c - yeast (Saccharomyces cerevisiae) ; (U20939) Ylr423cp [Saccharomyces cerevisiae]
23556	ENU07350	ANI61C43:32 06..147	31-51	771-793	LINAP		g729230	1899	86	4.00E-25	24	20	chromosome segregation protein CUT3 ; cut3 protein - fission yeast (Schizosaccharomyces pombe) ; (D30788) cut3 protein [Schizosaccharomyces pombe]
23557	ENU07351	ANI61C1041 4:1..857			LINAP		g544369	474	200	9.00E-51	40	46	General amino-acid permease GAP1 ; amino acid transport protein GAP1 - yeast (Saccharomyces cerevisiae) ; (Z28264) ORF YKR039w [Saccharomyces cerevisiae]
23558	ENU07352	ANI61C1040 4:5613..5130	59-86	436-463	LINAP		g1166378	135	94	4.00E-19	31	14	"(L76169) reverse transcriptase, RNaseH (Glomerella cingulata) "
23559	ENU07353	ANI61C1041 3:1682..783	22-42	802-829	LINAP		g626598	394	111	3.00E-36	42	53	hypothetical protein YHR016c - yeast (Saccharomyces cerevisiae) ; (U10400) Ysc84p [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23560	ENU07354	ANI61C1041 3:2409..2019	51-70	457-479	LINAP		g4538664	180	71	7.00E-12	32	91	(AL049474) hypothetical protein [Schizosaccharomyces pombe]
23561	ENU07355	ANI61C4342: 1104..1732	22-48	588-608	LINAP		g2645229	241	87	5.00E-23	37	41	(U78597) kinesin light chain [Plectonema boryanum]
23562	ENU07356	ANI61C1041 0:3562..3158	45-64	363-382	LINAP		g1055333	111	68	6.00E-11	25	23	(U38821) pig1 [Magnaporthe grisea]
23563	ENU07357	ANI61C4349: 1384..628	22-47	714-733	LINAP		g2506204	265	94	2.00E-24	38	68	hypothetical 33.4 KD protein in MOEA-GRXA intergenic region precursor ; (AE000185) putative asparaginase [Escherichia coli] ; (D90720) Hypothetical protein in moeA-grxA intergenic region precursor . [Escherichia coli] ; (D90721) Hypothetical protein in moeA-grxA intergenic region precursor . [Escherichia coli]
23564	ENU07358	ANI61C1042 5:2784..2396	45-64	425-446	LINAP		g3025094	314	138	1.00E-32	51	50	hypothetical 32.5 KD protein in MSH6-BMH2 intergenic region ; thioredoxin homolog YDR098c - yeast (Saccharomyces cerevisiae) ; (Z47746) probable thioredoxin [Saccharomyces cerevisiae]
23565	ENU07359	ANI61C1040 9:4217..4878	24-43	616-635	LINAP		g1711596	212	134	7.00E-31	36	28	putative sulfate transporter YPR003C ; probable membrane protein YPR003c - yeast (Saccharomyces cerevisiae) ; (Z48951) unknown [Saccharomyces cerevisiae] ; (U31900) Lpz3p [Saccharomyces cerevisiae] ; (Z71255) unknown [Saccharomyces cerevisiae] (AF024618) cyclin H [Drosophila melanogaster]
23566	ENU07360	ANI61C1043: 2600..3276	22-47	602-621	LINAP		g2570798	222	53	0.000000	30	51	putative dioxygenase YLL057C ; hypothetical protein YLL057c - yeast (Saccharomyces cerevisiae) ; (Z47973) ORF L0572 [Saccharomyces cerevisiae] ; (Z73162) ORF YLL057c [Saccharomyces cerevisiae]
23567	ENU07361	ANI61C1038 8:9158..8406	47-65	684-703	LINAP		77				25		
23568	ENU07362	ANI61C433:5 523..6762	47-66	805-829	LINAP		g2497056	613	131	2.00E-46	44	57	

Gene Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23569	ENU07363	ANI61C4387: 415..1	22-49	455-474	LINAP		g3169083	124	84	7.00E-16	37	42	(AL023705) hypothetical protein [Schizosaccharomyces pombe]
23570	ENU07364	ANI61C4384: 1566..2087	67-86	468-487	LINAP		g3023956	166	76	2.00E-13	36	11	vegetable incompatibility protein HET-E-1 ; (L28125) beta transducin-like protein [Podospora anserina]
23571	ENU07365	ANI61C1043 4:4998..4685	70-89	320-339	LINAP		g4154042	123	65	3.00E-10	34	33	(AL035159) putative oxidoreductase [Mycobacterium leprae]
23572	ENU07366	ANI61C436:3 921..3166	38-57	689-708	LINAP		g2634106	189	121	6.00E-27	29	9	(Z99113) polyketide synthase [Bacillus subtilis]
23573	ENU07367	ANI61C436:6 570..5307	29-48	804-823	LINAP		g1546072	275	211	6.00E-54	43	10	(U68040) polyketide synthase [Cochliobolus heterostrophus]
23574	ENU07368	ANI61C4410: 1381..3045	22-47	782-801	LINAP		g2342601	1238	213	9.00E-55	36	5	(X89442) peptide synthetase [Metarhizium anisopliae]
23575	ENU07369	ANI61C4402: 2740..3699	95-114	726-745	LINAP		g3702646	193	68	3.00E-19			(AL031825) putative membrane transport protein [Schizosaccharomyces pombe]
23576	ENU07370	ANI61C4429: 1..704	110-137	645-664	LINAP		g417253	136	73	3.00E-12	41	24	lipase 5 precursor ; triacylglycerol lipase (EC 3.1.1.3) 5 precursor - yeast (Candida rugosa)
23577	ENU07371	ANI61C1046 4:1629..1300	48-73	449-468	LINAP		g3550483	80	54	0.000000			(AJ224324) cp31BHv [Hordeum vulgare]
23578	ENU07372	ANI61C4444: 602..208	22-44	454-479	LINAP		g2558841	172	99	2.00E-20	41	8	(AF016585) polyketide synthase module 6 [Streptomyces caelestis]
23579	ENU07373	ANI61C1044 1:3768..4364	51-70	508-527	LINAP		g3912992	122	92	3.00E-18			alpha-glucosidase (maltase) ; (AF042494) alpha-glucosidase [Sulfolobus solfataricus]
23580	ENU07374	ANI61C4446: 1415..392	25-45	719-743	LINAP		g2440190	372	78	1.00E-29	36	15	(Z98602) putative protein transport protein sec7 homolog [Schizosaccharomyces pombe]
23581	ENU07375	ANI61C1045 1:2702..2370	23-46	442-461	LINAP		g1169369	40	50	0.00001	35	23	DNAJ protein ; heat shock protein dnaJ - Clostridium acetobutylicum ; (X69050) DnaJ [Clostridium acetobutylicum]
23582	ENU07376	ANI61C1100 0:2307..3900	22-45	804-827	LINAP		g3426176	354	52	0.000004			(AB008771) beta-N-Acetylglucosaminidase [Streptomyces thermoviolaceus]
23583	ENU07377	ANI61C1104 2:1321..657	109-128	622-644	LINAP		g3130007	147	43	0.002			(AL023517) putative secreted protease [Streptomyces coelicolor]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23584	ENU07378	ANI61C4476:258..558	36-57	277-300	LINAP		g4097335	89	47	0.00009	36	50	(U57524) I kappa B alpha [Mus musculus]
23585	ENU07379	ANI61C1104:0:1..460	47-70	401-419	LINAP		g1708078	81	50	0.00001	28	7	"endoglucanase A precursor (endo-1,4-beta-glucanase A) (cellulase A) ; (L32742) cellulase [Caldocellum saccharolyticum] "
23586	ENU07380	ANI61C4496:1..886	112-131	804-829	LINAP		g4503355	109	104	8.00E-22	26	15	dedicator of cyto-kinesis 1 ; (D50857) DOCK180 protein [Homo sapiens]
23587	ENU07381	ANI61C1046:2:4242..4589	36-59	457-479	LINAP		g4249377	124	42	0.000000	37	25	(AC005966) Similar to gi 2829865 F3I6.4 from Arabidopsis thaliana BAC gb AC002396. [Arabidopsis thaliana]
23588	ENU07382	ANI61C439:1..473	130-157	432-452	LINAP		g3413518	417	118	3.00E-26	37	9	(AB010810) phospholipase D [Candida albicans]
23589	ENU07383	ANI61C1102:9:4141..4735	22-49	501-525	LINAP		g1711639	663	275	2.00E-73	72	23	"methionyl-TRNA synthetase, cytoplasmic (methionine--TRNA ligase) (METRS) ; methionine--tRNA ligase (EC 6.1.1.10), cytosolic - yeast (Saccharomyces cerevisiae) ; (Z73049) ORF YGR264c [Saccharomyces cerevisiae] ; (Y07777) methionine--tRNA ligase [Saccharomyces cerevisiae] "
23590	ENU07384	ANI61C45:1..535	102-122	404-423	LINAP		g1710803	150	52	1.00E-12	36	29	retrograde regulation protein 2 ; RTG2 protein - yeast (Saccharomyces cerevisiae) ; (X94357) ORF NRF588; EMBL:SCRTG2X:M97691; PIR:B44344;B44344 [Saccharomyces cerevisiae] ; (M97691) Rtg2p [Saccharomyces cerevisiae] ; (Z72774) ORF YGL252c [Saccharomyces cerevisiae]
23591	ENU07385	ANI61C1046:8:1..831	102-125	782-803	LINAP		g2497953	347	143	3.00E-37	45	37	molybdopterin biosynthesis CNX1 protein (molybdenum cofactor biosynthesis enzyme CNX1) ; (L47323) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana] ; (AJ236870) molybdenum cofactor biosynthesis enzyme [Arabidopsis thaliana]

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23592	ENU07386	ANI61C45:15 62..1195	22-49	454-479	LINAP		g1911486	159	45	0.000000	38	38	"(S80872) putative Tc1-mariner class transposase/IS630-Tc1 homolog [Aspergillus niger, chlorate-resistant mutant 46, transposon Ant1, Peptide Transposon, 325 aa] [Aspergillus niger]"
23593	ENU07387	ANI61C4537: 1259..2507	40-59	805-825	LINAP		g2132480	553	124	9.00E-28	43	33	probable membrane protein YDR205w - yeast (Saccharomyces cerevisiae) ; (Z68194) unknown [Saccharomyces cerevisiae]
23594	ENU07388	ANI61C1046 5:2048..718	22-42	800-827	LINAP		g2131433	692	244	7.00E-64	44	40	hypothetical protein YDR332w - yeast (Saccharomyces cerevisiae) ; (U32517) Ydr332wp [Saccharomyces cerevisiae]
23595	ENU07389	ANI61C4532: 2747..726	22-48	810-829	LINAP		g3913674	217	46	0.0002			Ferric reductase transmembrane component 3 precursor ; probable membrane protein YOR381w - yeast (Saccharomyces cerevisiae) ; (Z75289) ORF YOR381w [Saccharomyces cerevisiae]
23596	ENU07390	ANI61C1046 5:7103..6296	26-45	764-783	LINAP		g4220848	609	169	7.00E-48	49	16	(AF033823) moira [Drosophila melanogaster]
23597	ENU07391	ANI61C4588: 413..1	55-79	452-479	LINAP		g2131783	706	88	3.00E-26	46	31	hypothetical protein YLR116w - yeast (Saccharomyces cerevisiae) ; (U53877) Ylr116wp [Saccharomyces cerevisiae] ; (X89514) putative orf [Saccharomyces cerevisiae] ; (Z73288) ORF YLR116w [Saccharomyces cerevisiae]
23598	ENU07392	ANI61C1047 8:2773..3779	24-42	801-828	LINAP		g121967	81	33	2.3			histone H2A.1 ; histone H2A.1 - yeast (Saccharomyces cerevisiae) ; (V01304) histone H2A1 [Saccharomyces cerevisiae] ; (U13239) histone H2A1 [Saccharomyces cerevisiae] ; (Z48612) H2a1p [Saccharomyces cerevisiae]
23599	ENU07393	ANI61C5459: 1128..550	178-202	535-558	LINAP		g2440180	187	37	0.13			(Z99531) ubiquitin system protein [Schizosaccharomyces pombe]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23600	ENU07394	ANI61C1103 2:6045..6458	68-95	455-479	LINAP		g1710802	121	75	3.00E-13	35	45	RTA1 protein ; RTA1 protein - yeast (Saccharomyces cerevisiae) ; (Z72998) ORF YGR213c [Saccharomyces cerevisiae] ; (X84736) RTA1 [Saccharomyces cerevisiae] (AB025252) reverse transcriptase [Magnaporthe grisea] (U43704) ketoreductase [Streptomyces sp. C5] (AC004392) Contains similarity to gb U51898 Ca2+-independent phospholipase A2 from Rattus norvegicus. [Arabidopsis thaliana] (AF111172) lysosomal pepstatin insensitive protease precursor [Mus musculus]
23601	ENU07395	ANI61C532:4 143..3695	22-46	457-479	LINAP		g4586458	133	89	2.00E-17	32	57	Transmission-blocking target antigen S230 precursor ; transmission-blocking target antigen Pfs230 - Plasmodium falciparum ; (L08135) Pfs230 [Plasmodium falciparum] ; (L04162) s230 [Plasmodium falciparum] ; (AE001393) transmission blocking target antigen Pfs230 [Plasmodium falciparum]
23602	ENU07396	ANI61C1103 5:2574..3119	22-49	499-525	LINAP		g1163927	108	75	3.00E-13			(AL021046) putative mitotic spindle protein [Schizosaccharomyces pombe]
23603	ENU07397	ANI61C532:1 1195..11988	22-49	750-773	LINAP		g3367519	96	72	4.00E-12	30	20	"Omega-6 fatty acid desaturase, endoplasmic reticulum isozyme 1 ; (L43920) microsomal omega-6 desaturase [Glycine max] "
23604	ENU07398	ANI61C4578: 2040..1151	62-88	810-829	LINAP		g4106913	285	46	0.00005	33	17	lymphocyte specific helicase - mouse ; (U25691) lymphocyte specific helicase [Mus musculus]
23605	ENU07399	ANI61C5492: 1..785	51-70	716-735	LINAP		g730413	118	52	0.000004			
23606	ENU07400	ANI61C5469: 1442..576	22-48	803-829	LINAP		g2706463	297	125	4.00E-28	27	19	
23607	ENU07401	ANI61C1107 5:2077..2843	23-49	689-706	LINAP		g1345976	371	187	8.00E-47	44	59	
23608	ENU07402	ANI61C4539: 3779..5452	22-49	809-829	LINAP		g2137490	700	266	1.00E-70	50	44	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23609	ENU07403	ANI61C5517: 24-47 876..1	24-47	776-798	LINAP		g1346360	638	201	3.00E-54	53	43	probable serine/threonine-protein kinase C24B11.11C ; hypothetical protein SPAC24B11.11c - fission yeast (Schizosaccharomyces pombe) ; (Z67757) unknown
23610	ENU07404	ANI61C1048 2:2761..4048	22-49	810-829	LINAP		g1168808	446	155	5.00E-37	39	40	[Schizosaccharomyces pombe] cell division control protein 18 ; cell division control protein CDC18+ - fission yeast (Schizosaccharomyces pombe) ; (L16793) cell division cycle protein [Schizosaccharomyces pombe] ; (AL022305) cell division control protein 18 [Schizosaccharomyces pombe]
23611	ENU07405	ANI61C4614: 57-83 1..458	57-83	411-437	LINAP		g4063383	174	61	7.00E-10	53	30	(AF096285) serine-threonine kinase receptor-associated protein [Mus musculus]
23612	ENU07406	ANI61C5521: 22-45 455..1028	22-45	360-379	LINAP		g586352	474	137	1.00E-44	56	15	hypothetical 124.0 KD protein in PCS60-ABD1 intergenic region ; probable membrane protein YBR235w - yeast (Saccharomyces cerevisiae) ; (Z36104) ORF YBR235w [Saccharomyces cerevisiae]
23613	ENU07407	ANI61C4601: 55-72 330..1	55-72	444-463	LINAP		g3023267	109	61	0.000000	37	10	alpha-glucosidase precursor (maltase) ; (D45356) alpha-glucosidase [Aspergillus niger]
23614	ENU07408	ANI61C5535: 22-40 388..982	22-40	550-574	LINAP		g4104775	96	57	0.000000	31	37	(AF039534) salicylate hydroxylase [Pseudomonas stutzeri]
23615	ENU07409	ANI61C4618: 45-64 887..481	45-64	431-453	LINAP		g1723476	204	99	2.00E-20	47	57	hypothetical 22.2 KD protein C17G8.03C in chromosome I ; (Z69795) unknown
23616	ENU07410	ANI61C1049 4:3226..2619	116-135	469-488	LINAP		g4493697	43	71	9.00E-12			[Schizosaccharomyces pombe] (Y18863) Pop4 protein [Homo sapiens]
23617	ENU07411	ANI61C5529: 36-55 1940..700	36-55	801-828	LINAP		g2342601	95	59	0.000000			(X89442) peptide synthetase [Metarhizium anisopliae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23618	ENU07412	ANI61C1106 5:6587..6241	37-56	456-475	LINAP		g3219959	211	128	3.00E-29	47	32	"probable zinc metalloproteinase C17A5.04C precursor ; (Z98849) disintegrin [Schizosaccharomyces pombe] "
23619	ENU07413	ANI61C8968: 22-48 932..2028	809-828		LINAP		g2501739	204	123	1.00E-27	31	19	"putative 151.3 KD transcriptional regulatory protein ; probable membrane protein YLR278c - yeast (Saccharomyces cerevisiae) ; (U17243) Serine, glutamine, asparagine rich central portion of protein [Saccharomyces cerevisiae] "
23620	ENU07414	ANI61C1108: 26-49 3803..3001	760-782		LINAP		g3334796	217	131	5.00E-30	34	52	(AL031107) putative secreted glucosidase [Streptomyces coelicolor] (AB018321) KIAA0778 protein [Homo sapiens]
23621	ENU07415	ANI61C4622: 37-57 210..1318	657-678		LINAP		g3882277	259	112	3.00E-24	37	38	(AL031107) putative secreted glucosidase [Streptomyces coelicolor] (AB018321) KIAA0778 protein [Homo sapiens]
23622	ENU07416	ANI61C5567: 22-44 1..1008	805-829		LINAP		g3560207	275	141	6.00E-33			(AL031536) fnx1p. [Schizosaccharomyces pombe]
23623	ENU07417	ANI61C893:5 38-57 964..4504	800-827		LINAP		g2270900	869	235	2.00E-61	48	97	(U66283) dihydropterolate synthase [Pneumocystis carinii f. sp. muris]
23624	ENU07418	ANI61C1110 3:331..652			LINAP		g4006889	72	49	0.00002	33	32	(Z99708) putative protein [Arabidopsis thaliana]
23625	ENU07419	ANI61C1051 22-43 3:446..782	456-475		LINAP		g2765035	106	69	2.00E-11	38	12	(Y09899) sensory histidine protein kinase [Calothrix viguieri]
23626	ENU07420	ANI61C1111 22-49 0:2185..1270	794-813		LINAP		g3024443	362	149	3.00E-35	34	82	pyrroline-5-carboxylate reductase (P5CR) (P5C reductase) ; pyrroline-5-carboxylate reductase (EC 1.5.1.2) - Zalerion arboricola ; (U33266) pyrroline carboxylate reductase [Zalerion arboricola]
23627	ENU07421	ANI61C1047 22-42 7:2007..3198	809-829		LINAP		g2826168	224	109	2.00E-23	31	64	(AB010714) salicylate hydroxylase [Pseudomonas putida]
23628	ENU07422	ANI61C5574: 23-50 2915..3635	678-699		LINAP		g2661610	436	168	1.00E-43	49	90	(AL009197) hypothetical ubiquitin conjugating enzyme [Schizosaccharomyces pombe]
23629	ENU07423	ANI61C1107 25-44 3:2565..3336	717-736		LINAP		g1673402	118	47	0.000000	30	46	(Z82044) hypothetical 54.4 kd protein [Bacillus subtilis]

Accession

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23630	ENU07424	ANI61C1047 7:9261..10917	22-45	660-679	LINAP		g3023956	1264	282	5.00E-81	54	20	vegetable incompatibility protein HET-E-1 ; (L28125) beta transducin-like protein [Podospora anserina]
23631	ENU07425	ANI61C558:1 .424	36-63	366-385	LINAP		g1166378	109	66	1.00E-10	34	12	"(L76169) reverse transcriptase, RNaseH [Glomerella cingulata] "
23632	ENU07426	ANI61C1107 3:8638..9147	35-54	460-487	LINAP		g1150442	134	81	5.00E-15			"(Z46869) exo-1,3-beta-glucanase/1,3-beta-D-Glucan glucanohydrolase [Kluyveromyces lactis] "
23633	ENU07427	ANI61C1050 9:2651..3170	54-73	387-406	LINAP		g2462678	108	34	0.003	32	40	(Z99568) recombinational dna repair protein rhp55p. [Schizosaccharomyces pombe] ; (AF053410) recombinational DNA repair protein Rhp55p [Schizosaccharomyces pombe]
23634	ENU07428	ANI61C5640: 527..17	22-49	335-357	LINAP		g1352987	275	121	3.00E-27	40	41	BTN1 protein ; probable membrane protein YJL059w - yeast (Saccharomyces cerevisiae) ; (Z49334) ORF YJL059w [Saccharomyces cerevisiae]
23635	ENU07429	ANI61C8997: 1040..656	48-70	314-333	LINAP		g3901117	193	92	1.00E-18	38	20	(AJ012752) maltose permease [Saccharomyces cerevisiae]
23636	ENU07430	ANI61C4607: 2725..2293	35-55	426-445	LINAP		g2959337	95	61	0.000000	23	71	(AJ224767) hypothetical protein [Acinetobacter sp. ADP1]
23637	ENU07431	ANI61C5576: 5415..4439	50-69	799-817	LINAP		g2645229	365	150	9.00E-36	35	49	(U78597) kinesin light chain [Plectonema boryanum]
23638	ENU07432	ANI61C1109 9:2053..2776	38-57	680-703	LINAP		g3184386	149	35	0.66			(AF043102) surface glycoprotein A [Pneumocystis carinii]
23639	ENU07433	ANI61C4629: 1396..180	22-46	620-643	LINAP		g2414656	613	191	4.00E-48	38	55	(Z99261) putative aminotransferase [Schizosaccharomyces pombe]
23640	ENU07434	ANI61C5639: 695..384	87-111	308-332	LINAP		g2555098	234	58	0.000000	45	27	(AF019407) GTP-binding protein [Caulobacter crescentus]
23641	ENU07435	ANI61C1109 9:4414..4960	22-40	464-483	LINAP		g3489	204	62	0.000000	36	79	(X03449) unidentified reading frame [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23642	ENU07436	ANI61C1051 5:1440..1	22-47	721-740	LINAP		g2498346	1342	351	4.00E-96	59	44	probable electron transfer flavoprotein-ubiquinone oxidoreductase precursor (ETF-QO) (ETF-ubiquinone oxidoreductase) (ETF dehydrogenase) (electron-transferring-flavoprotein dehydrogenase) ; hypothetical protein YOR356w - yeast (Saccharomyces cerevisiae) ; (Z75264) ORF YOR356w [Saccharomyces cerevisiae]
23643	ENU07437	ANI61C460:5 253..4307	22-48	805-827	LINAP		g2133702	326	93	3.00E-28			phosphorylase kinase (EC 2.7.1.38) gamma chain - fruit fly (Drosophila melanogaster) ; (U13014)
23644	ENU07438	ANI61C4647: 1379..1	49-67	762-780	LINAP		g3163925	307	114	7.00E-25	29	13	phosphorylase kinase gamma [Drosophila melanogaster]
23645	ENU07439	ANI61C1051 1:2645..2166	22-42	453-479	LINAP		g2497529	113	65	4.00E-10	38	21	(Y17317) polyketide synthase [Aspergillus fumigatus]
23646	ENU07440	ANI61C8980: 22-45 3812..2877	22-45	776-795	LINAP		g4008344	153	39	0.054			Diatom spindle kinesin 1 ; (U51680) diatom spindle kinesin 1 [Cylindrotheca fusiformis] (Z35639) cDNA EST CEMSD23F comes from this gene; cDNA EST CEESE24F comes from this gene; cDNA EST EMBL:D33683 comes from this gene; cDNA EST EMBL:D36566 comes from this gene; cDNA EST EMBL:D36682 comes from this gene; cDNA EST ... (X69481) GTPase [Saccharomyces cerevisiae]
23647	ENU07441	ANI61C5655: 46-65 636..1524	46-65	625-644	LINAP		g4006	289	129	3.00E-29	32	49	(AC004684) putative ribitol dehydrogenase [Arabidopsis thaliana]
23648	ENU07442	ANI61C1113 0:977..541	23-42	457-479	LINAP		g3236237	53	47	0.00007			

Seq num	Seq id	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23649	ENU07443	Contig source ANI61C5641: 23-42 2234..1359	806-828	LINAP		g1175036	188	99	5.00E-20	35	52	"beta-xylosidase (1,4-beta-D-xylan xylohydrolase) (xylan 1,4-beta-xylosidase) / alpha-L-arabinofuranosidase (arabinosidase) ; xylan 1,4-beta-xylosidase (EC 3.2.1.37) - Butyrivibrio fibrisolvens ; (M55537) beta-D-xylosidase/alpha-L-arabinofuranosidase [Butyrivibrio fibrisolvens] "
23650	ENU07444	ANI61C8978: 46-65 1484..1879	457-479	LINAP		g1377890	65	61	0.000000			(L77083) cdc2 gene product [Nicotiana tabacum]
23651	ENU07445	ANI61C1051 22-47 1:3430..2845	532-551	LINAP		g2978452	96	73	2.00E-12			(AE001274) MCAK; L549.3 [Leishmania major]
23652	ENU07446	ANI61C4646: 23-42 3587..2915	626-652	LINAP		g543754	212	85	4.00E-16	40	29	acetylcholinesterase precursor (ACHE)
23653	ENU07447	ANI61C1110 34-53 0:3330..2673	611-630	LINAP		g1352996	184	79	7.00E-20	38	24	hypothetical 68.8 KD protein in EXO70-ARP4 intergenic region ; hypothetical protein YJL083w - yeast (Saccharomyces cerevisiae) ; (X88851) hypothetical protein [Saccharomyces cerevisiae] ; (X83502) J1002 [Saccharomyces cerevisiae] ; (Z49358) ORF YJL083w [Saccharomyces cerevisiae]
23654	ENU07448	ANI61C8986: 22-42 2620..3097	457-477	LINAP		g731862	82	75	3.00E-13	34	10	"Nucleoporin NUP159 (nuclear pore protein NUP159) ; nucleoporin RAT7 - yeast (Saccharomyces cerevisiae) ; (Z38125) orf, len: 1460,CAI: 0.15 [Saccharomyces cerevisiae] ; (L40634) nucleoporin [Saccharomyces cerevisiae] "
23655	ENU07449	ANI61C1052 161-182 5:5633..4932	639-658	LINAP		g1172047	107	79	3.00E-14	34	33	Lysosomal pro-X carboxypeptidase precursor (prolylcarboxypeptidase) (PRCP) (proline carboxypeptidase) (angiotensinase C) (lysosomal carboxypeptidase C) ; lysosomal Pro-X carboxypeptidase (EC 3.4.16.2) - human ; (L13977) prolylcarboxypeptidase [Homo sapiens]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23656	ENU07450	ANI61C5629: 23-43 3467..1943	23-43	806-828	LINAP		g3121733	1250	243	2.00E-66	56	34	"aconitate hydratase, mitochondrial precursor (citrate hydro-lyase) (aconitase) ; (Z98601) aconitate hydratase. [Schizosaccharomyces pombe]"
23657	ENU07451	ANI61C1055: 22-43 871..104	22-43	580-602	LINAP		g3925783	538	237	6.00E-62	52	55	(AL034353) glutamate n-acetyltransferase precursor [Schizosaccharomyces pombe]
23658	ENU07452	ANI61C459:1 27-46 002..1	27-46	801-828	LINAP		g2119802	366	105	4.00E-36	37	40	probable membrane protein YDL247w - yeast (Saccharomyces cerevisiae) ; (Z74295) ORF YDL247w [Saccharomyces cerevisiae]
23659	ENU07453	ANI61C9012: 22-47 1882..1172	22-47	665-684	LINAP		g541082	164	77	1.00E-13	36	63	GutQ homolog - Escherichia coli
23660	ENU07454	ANI61C1116 3:4552..3479	197-216	777-796	LINAP		g3738162	549	203	1.00E-51	49	53	(AL031856) putative involvement in protein glycosylation in the golgi [Schizosaccharomyces pombe]
23661	ENU07455	ANI61C1054 23-43 5:677..283	23-43	413-432	LINAP		g2494853	43	59	0.000000			probable hydroxyacylglutathione hydrolase (glyoxalase II) (GLX II) ; (D83536) unknown [Escherichia coli] ; (U70214) hypothetical protein [Escherichia coli] ; (AE000130) probable hydroxyacylglutathione hydrolase [Escherichia coli]
23662	ENU07456	ANI61C4681: 49-73 1354..669	49-73	524-546	LINAP		g4514622	222	109	2.00E-23	37	61	(AB011211) pectin methylesterase [Aspergillus oryzae]
23663	ENU07457	ANI61C9019: 22-49 1260..397	22-49	690-714	LINAP		g3560143	481	198	3.00E-51	58	42	(AL031534) putative vacuolar protein sorting-associated protein [Schizosaccharomyces pombe]
23664	ENU07458	ANI61C1115: 59-81 1340..3049	59-81	808-829	LINAP		g1346099	1100	197	8.00E-50	47	45	Glycolipid anchored surface protein precursor (glycoprotein GP115) ; glycopospholipid-anchored surface glycoprotein GAS1 precursor - yeast (Saccharomyces cerevisiae) ; (X56399) glycoprotein gp115 [Saccharomyces cerevisiae] ; (Z49212) Gas1p [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23665	ENU07459	ANI61C4696: 1134..477	101-123	612-637	LINAP		g731945	129	80	1.00E-14	30	23	putative 86.7 KD transcriptional regulatory protein in NUC1-NCE1 intergenic region ; finger protein YJL206c - yeast (Saccharomyces cerevisiae) ; (X77688) hypothetical protein J0316 [Saccharomyces cerevisiae] ; (Z49481) ORF YJL206c [Saccharomyces cerevisiae]
23666	ENU07460	ANI61C4709: 532..1			LINAP		g1705462	125	68	6.00E-12	37	26	"adenosylmethionine-8-amino-7-oxonanoate aminotransferase (7,8-diamino-pelargonic acid aminotransferase) (DAPA aminotransferase) ; BIO3 protein - yeast (Saccharomyces cerevisiae) ; (Z71673) ORF YNR058w [Saccharomyces cerevisiae] "
23667	ENU07461	ANI61C5635: 1715..495	43-70	794-817	LINAP		g1084961	197	41	7.00E-11			lipase - yeast (Geotrichum candidum) ; (U02387) lipase [Geotrichum candidum] ; lipase I [Galactomyces geotrichum]
23668	ENU07462	ANI61C1050 5:9182..10097	27-54	809-828	LINAP		g3915140	306	78	1.00E-13	32	37	isotrichodermin C-15 hydroxylase (cytochrome P450 65A1) ; (AF011355) isotrichodermin C-15 hydroxylase [Fusarium sporotrichioides]
23669	ENU07463	ANI61C464:4 64..1102	48-67	577-596	LINAP		g130784	68	72	4.00E-12			Pyrimidine pathway regulatory protein 1 ; regulatory protein PPR1 - yeast (Saccharomyces cerevisiae) ; (X01739) regulatory protein (AA 1-904) [Saccharomyces cerevisiae] ; (Z73186) ORF YLR014c [Saccharomyces cerevisiae]
23670	ENU07464	ANI61C464:5 802..6738	44-71	805-829	LINAP		g1171129	104	81	9.00E-15	25	10	(U24657) saframycin Mx1 synthetase A [Myxococcus xanthus]
23671	ENU07465	ANI61C1476: 2762..1351	22-41	805-823	LINAP		g4507551	177	76	3.00E-13	32	16	transmembrane protein 1 ; epilepsy holoprosencephaly candidate-1 protein (EHOC-1) (transmembrane protein 1) ; probable transmembrane protein - human ; (U19252) putative transmembrane protein [Homo sapiens]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23672	ENU07466	ANI61C9001: 38-64 3362..1	38-64	804-828	LINAP		g1834342	3543	329	e-119	76	19	(Z68905) ATP-binding cassette multidrug transporter [Emericella nidulans]
23673	ENU07467	ANI61C1476: 5187..4809			LINAP		g3859670	154	82	2.00E-15	38	19	(AL033502) hypothetical membrane protein [Candida albicans]
23674	ENU07468	ANI61C5635: 66-85 4748..4091	66-85	614-637	LINAP		g544191	144	67	3.00E-18	41	25	protein kinase DSK1 (DIS1-suppressing protein kinase) ; dis1-suppressing protein kinase dsk1 - fission yeast (Schizosaccharomyces pombe) ; (D13447) protein kinase [Schizosaccharomyces pombe]
23675	ENU07469	ANI61C1115 49-68 7:5462..5836	49-68	458-479	LINAP		g417770	328	143	1.00E-33	45	21	zinc finger protein SFP1 ; split zinc finger protein 1 - yeast (Saccharomyces cerevisiae) ; (U19729) Sfp1p [Saccharomyces cerevisiae]
23676	ENU07470	ANI61C9031: 30-50 1..938	30-50	806-829	LINAP		g544368	189	91	1.00E-19	29	54	Galactose-proton symport (galactose transporter) ; (U28377) ORF_o464 [Escherichia coli] ; (AE000377) galactose-proton symport of transport system [Escherichia coli]
23677	ENU07471	ANI61C1571: 22-49 637..1	22-49	510-536	LINAP		g3006192	649	200	6.00E-51	58	39	(AL022304) putative galactosyltransferase associated protein kinase [Schizosaccharomyces pombe]
23678	ENU07472	ANI61C4717: 22-48 260..1027	22-48	724-744	LINAP		g2133011	318	99	4.00E-20	45	39	probable membrane protein YPL260w - yeast (Saccharomyces cerevisiae) ; (Z73617) ORF YPL260w [Saccharomyces cerevisiae]
23679	ENU07473	ANI61C5710: 38-57 1706..2075	38-57	426-445	LINAP		g2808753	206	115	3.00E-25	38	7	(AL021409) polyketide synthase [Streptomyces coelicolor]
23680	ENU07474	ANI61C904:5 55-74 30..1	55-74	395-414	LINAP		g1723926	298	115	3.00E-25	48	18	"hypothetical 78.1 KD protein in TIP20-MRF1 intergenic region ; hypothetical protein YGL144c - yeast (Saccharomyces cerevisiae) ; (Z72666) ORF YGL144c [Saccharomyces cerevisiae] ; (X99960) putative, YGL144c [Saccharomyces cerevisiae] "

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23681	ENU07475	ANI61C1578: 22-45 1..419	22-45	358-377	LINAP		g134968	320	152	9.00E-37	54	25	serine/threonine protein kinase STE7 ; regulatory protein STE7 - yeast (Saccharomyces cerevisiae) ; (M14097) STE7 protein [Saccharomyces cerevisiae] ; (Z67750) regulatory protein STE7 [Saccharomyces cerevisiae] ; (Z74207) ORF YDL159w [Saccharomyces cerevisiae] probable membrane protein YOR320c - yeast (Saccharomyces cerevisiae) ; (X90565) orf 06145 [Saccharomyces cerevisiae] ; (Z75228) ORF YOR320c [Saccharomyces cerevisiae] (AB014885) HrPOPK-1 [Halocynthia roretzi] hypothetical 89.2 KD protein in RARI-SCJ1 intergenic region ; probable membrane protein YMR212c - yeast (Saccharomyces cerevisiae) ; (Z49809) unknown [Saccharomyces cerevisiae] (AB007927) KIAA0458 protein [Homo sapiens] "glucoamylase S1/S2 precursor (glucan 1,4-alpha-glucosidase) (1,4-alpha-D-glucan glucohydrolase) ; glucan 1,4-alpha-glucosidase (EC 3.2.1.3) - yeast (Saccharomyces cerevisiae) ; (Z38061) mal5, sta1, len: 1367, CAI: 0.3, AMYH_YEAST P08640 glucoamylase S1 (EC 3.2.1.3) [Saccharomyces cerevisiae] ; (U30626) glucoamylase [Saccharomyces cerevisiae var. diastaticus] " glycoprotein GP100 precursor (P29F8) ; (L04286) glycoprotein gp100 [Dictyostelium discoideum] (AF059534) severin kinase [Dictyostelium discoideum]
23682	ENU07476	ANI61C9003: 22-48 763..247	22-48	448-467	LINAP		g2132946	156	89	3.00E-17	35	29	
23683	ENU07477	ANI61C1555: 22-47 1..1288	22-47	805-824	LINAP		g3172111	657	185	3.00E-46	43	30	
23684	ENU07478	ANI61C1118 29-56 8:5374..3784	29-56	803-829	LINAP		g2497190	175	38	0.07			
23685	ENU07479	ANI61C4702: 22-47 1643..1059	22-47	532-551	LINAP		g3413878	110	37	0.001			
23686	ENU07480	ANI61C9003: 22-43 5306..7862	22-43	809-828	LINAP		g728850	574	40	0.024			
23687	ENU07481	ANI61C1598: 122-141 800..468	122-141	285-304	LINAP		g544411	71	45	0.0002			
23688	ENU07482	ANI61C1057 22-44 8:603..1764	22-44	805-824	LINAP		g3075511	342	104	2.00E-26	37	45	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23689	ENU07483	ANI61C4702: 3622..3185	25-48	452-479	LINAP		g4499843	131	55	0.000000	34	30	(AJ011965) oxidoreductase [Claviceps purpurea]
23690	ENU07484	ANI61C1120 2:242..1069	22-47	752-771	LINAP		g732206	394	101	9.00E-21	41	78	Autophagocytosis protein AUT1 ; hypothetical protein YNR007c - yeast (Saccharomyces cerevisiae) ; (X77395) N2040 [Saccharomyces cerevisiae] ; (Z71622) ORF YNR007c [Saccharomyces cerevisiae]
23691	ENU07485	ANI61C1059 4:1..1061			LINAP		g1723076	321	71	2.00E-26	35	46	hypothetical 57.3 KD protein GMC-type oxidoreductase CY50.03C ; (Z77137) hypothetical protein Rv1279 [Mycobacterium tuberculosis]
23692	ENU07486	ANI61C4730: 953..1	22-41	743-764	LINAP		g2133023	495	208	4.00E-53	39	32	probable membrane protein YPR091c - yeast (Saccharomyces cerevisiae) ; (U51033) Similar in central region to C. elegans hypothetical protein F55C12.5 (GenBank accession number U41107) [Saccharomyces cerevisiae]
23693	ENU07487	ANI61C9036: 3594..2846	25-44	708-728	LINAP		g4585623	183	39	0.046			(AJ133651) conidiospore surface protein [Trichoderma harzianum]
23694	ENU07488	ANI61C16:29 5..1437	122-141	744-763	LINAP		g3172113	1741	559	e-159	95	17	(AB014886) typeII DNA topoisomerase [Emericella nidulans]
23695	ENU07489	ANI61C1059 3:1..1731	68-87	764-784	LINAP		g3821332	240	98	8.00E-20	29	25	(AL033127) hypothetical protein [Schizosaccharomyces pombe]
23696	ENU07490	ANI61C5643: 4851..4395	22-48	452-479	LINAP		g465491	261	68	2.00E-26	46	30	"beta-xylosidase (1,4-beta-D-xylohydrolase) (xylan 1,4-beta-xylosidase) ; xylan 1,4-beta-xylosidase (EC 3.2.1.37) - Bacillus pumilus ; (X05793) xylan 1,4-beta-xylosidase [Bacillus pumilus] "
23697	ENU07491	ANI61C1118 3:5396..7922	22-47	777-795	LINAP		g2613108	2260	345	e-104	65	24	(AF030554) class V chitin synthase [Ustilago maydis]
23698	ENU07492	ANI61C57:41 8..2193	22-45	808-828	LINAP		g710551	163	78	1.00E-13			(L40632) ankyrin 3 [Mus musculus]
23699	ENU07493	ANI61C1120 3:4450..3389	54-72	786-813	LINAP		g16353521	200	103	1.00E-21	27	51	(D90914) beta-glucosidase [Synechocystis sp.]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23700	ENU07494	ANI61C1059 8:2380..882	22-43	807-829	LINAP		g549643	775	161	1.00E-49	43	29	hypothetical 102.7 KD protein in PRP16-SRP40 intergenic region ; hypothetical protein YKR089c - yeast (Saccharomyces cerevisiae) ; (Z27116) ORF YKR409 [Saccharomyces cerevisiae] ; (Z28314) ORF YKR089c [Saccharomyces cerevisiae] (M94916) ubiquitin-specific processing protease [Saccharomyces cerevisiae] delta-1-pyrroline-5-carboxylate dehydrogenase precursor (P5C dehydrogenase) ; (X95584) 1-pyrroline-5-carboxylate dehydrogenase [Agaricus bisporus] (AF107264) glutamate synthase large subunit [Rhizobium etli] Metal homeostasis protein BSD2 ; metal homeostasis protein BSD2 - yeast (Saccharomyces cerevisiae) ; (X76053) YBR2037-ORF [Saccharomyces cerevisiae] ; (L33783) metal homeostasis protein [Saccharomyces cerevisiae] ; (Z36159) ORF YBR290w [Saccharomyces cerevisiae] ; ORF YBR2037 [Saccharomyces cerevisiae] (AL035247) ion transporter [Schizosaccharomyces pombe] pol polyprotein - fruit fly (Drosophila melanogaster) transposon 1731 ; (X07656) pol polypeptide (AA 1-982) [Drosophila melanogaster] hypothetical 47.8 KD protein in HSP26-TIF32 intergenic region ; aminopeptidase Y homolog - yeast (Saccharomyces cerevisiae) ; (X76294) ORF YBRO718 [Saccharomyces cerevisiae] ; (Z35943) ORF YBR074w [Saccharomyces cerevisiae]
23701	ENU07495	ANI61C465:2 478..4468	22-49	804-829	LINAP		g173128	510	123	1.00E-27			
23702	ENU07496	ANI61C5689: 3897..4786	40-59	730-754	LINAP		g2494072	558	150	7.00E-57	48	46	
23703	ENU07497	ANI61C1060 0:2213..2711	36-55	367-387	LINAP		g4038458	230	53	1.00E-14	45	7	
23704	ENU07498	ANI61C465:9 120..9481	64-83	453-479	LINAP		g586358	172	72	2.00E-15			
23705	ENU07499	ANI61C1058 6:2054..1345	29-47	668-688	LINAP		g4164420	644	117	9.00E-26	41	59	
23706	ENU07500	ANI61C4751: 871..1704	34-53	749-773	LINAP		g85105	316	101	5.00E-21	39	13	
23707	ENU07501	ANI61C6475: 1453..2048	22-49	419-438	LINAP		g586511	187	99	6.00E-22	41	43	

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23708	ENU07502	ANI61C9037: 1753..1442	22-45	457-476	LINAP		g3879015	95	52	0.000003	39	100	"(Z81108) similar to RNA recognition motif. (aka RRM, RBD, or RNP domain); cDNA EST EMBL:D73942 comes from this gene; cDNA EST yk257f10.5 comes from this gene; cDNA EST EMBL:D70930 comes from this gene; cDNA EST EMBL:D73476 come..."
23709	ENU07503	ANI61C1611: 1330..376	46-65	725-746	LINAP		g2131263	873	196	1.00E-77	65	11	GLT1 protein - yeast (Saccharomyces cerevisiae) ; (Z67750) putative protein [Saccharomyces cerevisiae] ; (Z74219) ORF YDL171c [Saccharomyces cerevisiae]
23710	ENU07504	ANI61C6464: 666..332	36-54	456-479	LINAP		g557084	38	55	0.000000	2		(L35601) ankyrin [Drosophila melanogaster] ; ankyrin [Drosophila melanogaster]
23711	ENU07505	ANI61C9056: 2136..1496	97-116	595-620	LINAP		g3581879	366	116	1.00E-25	43	21	(AL031540) hypothetical ATP binding protein [Schizosaccharomyces pombe]
23712	ENU07506	ANI61C1557: 4403..2640	22-47	802-829	LINAP		g116453	720	36	0.35			"sodium channel protein, skeletal muscle alpha-subunit (MU-1) ; sodium channel protein mu1 alpha chain, skeletal muscle - rat ; (M26643) voltage-sensitive sodium channel alpha subunit [Rattus norvegicus] "
23713	ENU07507	ANI61C5732: 516..1	22-46	386-413	LINAP		g1351672	106	65	3.00E-10	28	16	putative 89.3 KD transcriptional regulatory protein C1F7.11C ; hypothetical protein SPAC1F7.11c - fission yeast (Schizosaccharomyces pombe) ; (Z67998) unknown
23714	ENU07508	ANI61C6469: 1051..174	41-60	803-829	LINAP		g2612904	322	109	2.00E-23	35	79	[Schizosaccharomyces pombe] (AF015825) malate dehydrogenase-like protein [Bacillus subtilis] ; (Z99110) similar to malate dehydrogenase [Bacillus subtilis]
23715	ENU07509	ANI61C1619: 648..1090	48-69	459-478	LINAP		g4519535	217	91	4.00E-18	34	31	(AB015306) Leukotriene B4 omega-hydroxylase [Homo sapiens]
23716	ENU07510	ANI61C567:1 213..866	32-51	456-479	LINAP		g3319757	64	58	0.000000	33	13	(AL031035) putative ATP/GTP-binding protein [Streptomyces coelicolor]

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted October 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23717	ENU07511	ANI61C6430: 6653..6314	30-51	443-470	LINAP		g3257375	91	37	0.08			(AP000004) 275aa long hypothetical translation initiation factor eIF-2 alpha chain [Pyrococcus horikoshii]
23718	ENU07512	ANI61C9058: 57-76	57-76	458-477	LINAP		g1351343	48	75	3.00E-13	28	15	positive regulator of purine utilisation ; positive regulator of purine utilisation - Emericella nidulans ; (X84015)
23719	ENU07513	ANI61C568:2 22-48	22-48	670-695	LINAP		g127338	149	48	4.00E-11	30	18	positive regulator of purine utilisation [Emericella nidulans]
23720	ENU07514	ANI61C9070: 1118..1			LINAP		g2832315	1046	356	e-101	69	38	morphogenesis-related protein (multicopy suppression of a budding defect 1) ; morphogenesis-related protein MSB1 - yeast (Saccharomyces cerevisiae) ; (M37767) multicopy suppressor of a budding defect [Saccharomyces cerevisiae] ; (Z75096) ORF YOR188w [Saccharomyces cerevisiae]
23721	ENU07515	ANI61C1617: 25-52	25-52	457-479	LINAP		g1834342	439	154	4.00E-37	66	10	eRF3 [Podospora anserina] (Z68905) ATP-binding cassette multidrug transporter [Emericella nidulans]
23722	ENU07516	ANI61C4767: 102-127	102-127	453-479	LINAP		g3913990	57	50	0.00001	29	14	ATP-dependent protease LA ; (AF030688) ATP-dependent proteinase [Mycobacterium smegmatis]
23723	ENU07517	ANI61C568:7 28-47	28-47	502-528	LINAP		g2981452	299	127	6.00E-29	45	91	(AF052482) germinating protein [Erysiphe graminis]
23724	ENU07518	ANI61C6462: 70-89	70-89	804-829	LINAP		g134388	373	91	1.00E-35	42	78	L-serine dehydratase (L-serine deaminase) ; L-serine dehydratase (EC 4.2.1.13) SDL1 - yeast (Saccharomyces cerevisiae) ; (X52657) L-serine dehydratase (AA 1-338) [Saccharomyces cerevisiae]
23725	ENU07519	ANI61C9042: 22-41	22-41	646-665	LINAP		g4499843	270	83	2.00E-15	42	40	(AJ011965) oxidoreductase [Claviceps purpurea]
23726	ENU07520	ANI61C1628: 25-50	25-50	331-350	LINAP		g98686	28	49	0.00002			internalin B - Listeria monocytogenes

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23727	ENU07521	ANI61C1060 4:1987..1325	24-51	611-629	LINAP		g3924850	99	59	2.00E-14			"(Z81586) predicted using Genefinder; similar to Alcohol/other dehydrogenases, short chain type [Caenorhabditis elegans]"
23728	ENU07522	ANI61C4780: 94..516	54-81	451-470	LINAP		g3873652	112	73	1.00E-12			(Z71177) Similarity with human nuclear autoantigen (PIR accession number JC2522); cDNA EST EMBL:D65093 comes from this gene; cDNA EST EMBL:D68406 comes from this gene; cDNA EST yk297d9.5 comes from this gene; cDNA EST yk353f10... ; (Z71181) Similarity with human nuclear autoantigen (PIR accession number JC2522); cDNA EST EMBL:D65093 comes from this gene; cDNA EST EMBL:D68406 comes from this gene; cDNA EST yk297d9.5 comes from this gene; cDNA EST yk353f10...
23729	ENU07523	ANI61C5751: 1204..1	31-50	721-740	LINAP		g2440206	1023	272	3.00E-72	51	36	(Z99532) putative integral membrane protein [Schizosaccharomyces pombe]
23730	ENU07524	ANI61C6462: 5222..5951	22-49	685-709	LINAP		g1351719	102	61	0.000000	34	71	hypothetical 30.0 KD protein C18G6.01C in chromosome I ; (Z68198) hypothetical protein [Schizosaccharomyces pombe]
23731	ENU07525	ANI61C9042: 5892..5338			LINAP		g114959	220	87	6.00E-21	40	22	Thermostable beta-glucosidase B (gentiobiase) (cellobiase) (beta-D-glucoside glucohydrolase) ; beta-glucosidase (EC 3.2.1.21) B - Clostridium thermocellum ; (X15644) bglB gene (AA1-754) [Clostridium thermocellum]
23732	ENU07526	ANI61C1062 1:1..406	22-46	346-365	LINAP		g710552	126	75	2.00E-13	40	6	(L40632) ankyrin 3 [Mus musculus]
23733	ENU07527	ANI61C4785: 764..1211	22-48	444-463	LINAP		g1546072	248	52	2.00E-13	40	5	(U68040) polyketide synthase [Cochliobolus heterostrophus]

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23734	ENU07528	ANI61C6502: 22-47 240..779	22-47	422-448	LINAP	LINAP	g2132816	256	130	8.00E-30	38	53	probable membrane protein YOL002c - yeast (Saccharomyces cerevisiae) ; (U43491) hypothetical protein UND327 [Saccharomyces cerevisiae] ; (Z74744) ORF YOL002c [Saccharomyces cerevisiae]
23735	ENU07529	ANI61C4789: 1093..1483			LINAP			30				29	
23736	ENU07530	ANI61C5728: 1182..1849			LINAP		g729781	159	45	0.000000			probable glucoSE transporter HXT5 ; hexose transport protein HXT5 - yeast (Saccharomyces cerevisiae) ; (X77961) hexose transporter [Saccharomyces cerevisiae] ; (U00060) Hxt5p: Hexose transporter [Saccharomyces cerevisiae] A-aggutinin attachment subunit precursor ; a-aggutinin core protein AGA1 - yeast (Saccharomyces cerevisiae) ; (M60590) a-aggutinin core subunit [Saccharomyces cerevisiae] ; (Z71659) ORF YNR044w [Saccharomyces cerevisiae] (AF009417) cytochrome P450 [Myrothecium roridum] (Z97052) hypothetical protein [Schizosaccharomyces pombe] hypothetical protein MJ0301 ; hypothetical protein MJ0301 - Methanococcus jannaschii ; (U67485) conserved hypothetical protein [Methanococcus jannaschii] (L35053) endonuclease [Magnaporthe grisea]
23737	ENU07531	ANI61C6472: 82-108 2582..2106	82-108	452-479	LINAP		g416592	101	42	0.003			general alpha-glucoside permease ; alpha-glucoside transport protein - yeast (Saccharomyces cerevisiae) ; (Z73074) ORF YGR289c [Saccharomyces cerevisiae]
23738	ENU07532	ANI61C907:8 45-71 2..1854	45-71	807-829	LINAP		g2267601	474	109	2.00E-23	39	39	
23739	ENU07533	ANI61C1652: 57-74 1249..2315	57-74	720-741	LINAP		g2213557	682	176	2.00E-43	40	52	
23740	ENU07534	ANI61C1060 40-62 3-4136..3828	40-62	450-477	LINAP		g2495901	124	69	2.00E-11	32	34	
23741	ENU07535	ANI61C5782: 179-206 1..1467	179-206	673-700	LINAP		g522302	755	219	2.00E-56	44	23	
23742	ENU07536	ANI61C6429: 37-56 4404..2930	37-56	789-808	LINAP		g1703215	74	80	2.00E-14			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23743	ENU07537	ANI61C9091: 26-47 1571..756	26-47	757-776	LINAP		g2494090	174	82	6.00E-15	27	86	hypothetical 33.3 KD protein in PERR-ARGF intergenic region ; (AE000134) putative lyase/synthase [Escherichia coli]
23744	ENU07538	ANI61C1675: 47-66 1739..2203	47-66	431-454	LINAP		g1723643	355	153	7.00E-37	52	37	hypothetical 44.9 KD protein in SEC9-MSB2 intergenic region ; probable membrane protein YGR010w - yeast (Saccharomyces cerevisiae) ; (Z72795) ORF YGR010w [Saccharomyces cerevisiae]
23745	ENU07539	ANI61C1061 22-49 4:2063..3065	22-49	774-797	LINAP		g3757672	148	70	2.00E-11	25	26	(AJ010902) inversin [Mus musculus]
23746	ENU07540	ANI61C4814: 104-125 694..1	104-125	558-576	LINAP		g2920706	498	242	3.00E-63	51	28	(Y13568) beta-xylosidase [Emericella nidulans]
23747	ENU07541	ANI61C4817: 71-90 1225..914	71-90	438-457	LINAP		g3413872	168	33	1.6			(AB007924) KIAA0455 protein [Homo sapiens]
23748	ENU07542	ANI61C566:6 106-133 860..7865	106-133	796-823	LINAP		g1363735	84	32	5.3			probable membrane protein YLR242c - yeast (Saccharomyces cerevisiae) ; (U20865) Arv1p [Saccharomyces cerevisiae]
23749	ENU07543	ANI61C4815: 32-52 1691..415	32-52	806-829	LINAP		g549443	547	210	1.00E-53	37	14	conidial green pigment synthase ; probable polyketide synthase - Emericella nidulans ; (X65866) putative polyketide or fatty acid synthase [Emericella nidulans] ; wA gene [Emericella nidulans]
23750	ENU07544	ANI61C1062 22-48 2:4990..5304	22-48	458-479	LINAP		g465533	166	36	0.14			hypothetical 11.5 KD protein in HTB2-NTH2 intergenic region ; hypothetical protein YBL001c - yeast (Saccharomyces cerevisiae) ; (Z26494) unknown [Saccharomyces cerevisiae] ; (Z35762) ORF YBL001c [Saccharomyces cerevisiae] ; ORF YBL0105 [Saccharomyces cerevisiae]

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23751	ENU07545	ANI61C9597: 46-72 848..1	712-738	712-738	LINAP	Database Hit	g4505499	421	148	6.00E-35	38	25	O-GlcNAc transferase (uridine diphospho-N-acetylglucosamine:polypeptide beta-N-acetylglucosaminyl transferase) ; (U77413) O-linked GlcNAc transferase [Homo sapiens]
23752	ENU07546	ANI61C9593: 22-44 2213..3056	779-806	779-806	LINAP		g2133786	89	39	0.053			NF-180 - sea lamprey ; (U19361) NF-180 [Petromyzon marinus]
23753	ENU07547	ANI61C6503: 57-76 2076..449	615-637	615-637	LINAP		g1077259	837	171	6.00E-42	39	23	probable membrane protein YPL006w - yeast (Saccharomyces cerevisiae) ; (Z48483) unknown [Saccharomyces cerevisiae] ; (U33335) Lpa1lp [Saccharomyces cerevisiae] ; (Z71255) unknown [Saccharomyces cerevisiae]
23754	ENU07548	ANI61C1674: 22-48 892..300	529-548	529-548	LINAP		g2498563	280	139	2.00E-32	53	46	MLO2 protein ; (L42550) ORF [Schizosaccharomyces pombe]
23755	ENU07549	ANI61C9034: 25-52 4999..5519	480-499	480-499	LINAP		g2689471	95	85	2.00E-16	37	30	(U62774) cytochrome P450 monooxygenase [Aspergillus parasiticus]
23756	ENU07550	ANI61C650:2 080..2671			LINAP		g3150139	108	66	2.00E-10	32	22	(AL023594) amino-acid permease [Schizosaccharomyces pombe]
23757	ENU07551	ANI61C909:4 71..1308	28-47	793-817	LINAP		g1437475	315	106	2.00E-34	33	80	"(D86544) hydroxyquinol-1, 2-dioxygenase [Ralstonia pickettii] "
23758	ENU07552	ANI61C9556: 59-78 1162..1997	59-78	795-814	LINAP		g171963	293	162	4.00E-39	41	53	(M15991) tRNA isopentenyl transferase [Saccharomyces cerevisiae]
23759	ENU07553	ANI61C5675: 40-59 6149..4744	40-59	809-828	LINAP		g1546072	394	63	3.00E-22	41	10	(U68040) polyketide synthase [Cochliobolus heterostrophus]
23760	ENU07554	ANI61C1122 8:6103..6779	26-45	635-656	LINAP		g2497056	85	55	0.000000	30	35	putative dioxygenase YLL057C ; hypothetical protein YLL057c - yeast (Saccharomyces cerevisiae) ; (Z47973) ORF L0572 [Saccharomyces cerevisiae] ; (Z73162) ORF YLL057c [Saccharomyces cerevisiae]
23761	ENU07555	ANI61C9102: 22-42 1863..942	22-42	800-819	LINAP		g3036840	378	106	3.00E-22	39	67	(AJ222967) cystinosin [Homo sapiens] ; (Y15924) cystinosin [Homo sapiens]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23762	ENU07556	ANI61C9556: 23-47 3868..3127	23-47	694-721	LINAP		g1723981	296	59	6.00E-13	32	53	hypothetical 44.5 KD protein in PDE1-RTF1 intergenic region ; hypothetical protein YGL246c - yeast (Saccharomyces cerevisiae) ; (X94357) ORF NRE387 [Saccharomyces cerevisiae] ; (Z72768) ORF YGL246c [Saccharomyces cerevisiae] (AL0233587) putative kinesin-like protein [Schizosaccharomyces pombe] ; quinate permease (quinate transporter) ; quinate transport protein - Emericella nidulans ; (X13525) quinate permease [Emericella nidulans] "probable calcium-transporting ATPase 3 (endoplasmic reticulum CA2+-ATPase) ; probable ATPase (EC 3.6.1.-) DRS2 - yeast (Saccharomyces cerevisiae) ; (L01795) ATPase [Saccharomyces cerevisiae] ; (U12980) Drs2p: Membrane spanning Ca-ATPase(P-type), member of the cation transport(E1-E2) ATPase [Saccharomyces cerevisiae] "
23763	ENU07557	ANI61C6476: 22-49 4571..5242	22-49	627-651	LINAP		g3136023	469	168	2.00E-48	54	26	Start control protein CDC10 ; cdc10 start control protein - fission yeast (Schizosaccharomyces pombe) ; (X02175) cdc10 polypeptide [Schizosaccharomyces pombe] (U78597) kinesin light chain [Plectonema boryanum] (AL031798) putative leucine permease transcriptional regulator. [Schizosaccharomyces pombe] (AB018344) KIAA0801 protein [Homo sapiens] (AF102265) N-acetylglucosamine-phosphate mutase [Homo sapiens]
23764	ENU07558	ANI61C1685: 22-47 298..1945	22-47	806-828	LINAP		g131768	381	128	4.00E-29			
23765	ENU07559	ANI61C1127 25-44 6:342..642	25-44	439-466	LINAP		g728905	304	140	7.00E-33	63	7	
23766	ENU07560	ANI61C5756: 66-85 2056..3660	66-85	805-823	LINAP		g115906	375	135	3.00E-31	35	34	
23767	ENU07561	ANI61C1127 29-51 1:669..1	29-51	610-637	LINAP		g2645229	225	85	6.00E-16	29	45	
23768	ENU07562	ANI61C9579: 22-47 6751..5631	22-47	808-829	LINAP		g3687460	402	157	7.00E-38	40	25	
23769	ENU07563	ANI61C65:35 33-52 11..4969	33-52	721-748	LINAP		g3882323	1206	386	e-106	69	26	
23770	ENU07564	ANI61C5811: 22-47 646..1	22-47	546-573	LINAP		g3851711	286	119	2.00E-26	44	32	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	nebi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23771	ENU07565	ANI61C1123 1:338..1	52-74	439-458	LINAP		g131768	87	61	6.00E-10	31	31	quininate permease (quininate transporter) ; quininate transport protein - Emericella nidulans ; (X13525) quininate permease ; [Emericella nidulans]
23772	ENU07566	ANI61C5803: 312..1387	22-48	767-786	LINAP		g2500587	621	100	4.00E-30	47	51	Spliceosome associated protein 49 (SAP 49) (SF3B53) ; spliceosome-associated protein SAP-49 - human ; (L35013) spliceosomal protein [Homo sapiens]
23773	ENU07567	ANI61C1703: 1542..994	38-57	506-525	LINAP		g2132865	170	58	0.000000			probable membrane protein YOR034c - yeast (Saccharomyces cerevisiae) ; (X87331) AKR1 homologue; overlaps with L31407 [Saccharomyces cerevisiae] ; (Z74942) ORF YOR034c [Saccharomyces cerevisiae]
23774	ENU07568	ANI61C1123 1:2054..1750	22-43	455-479	LINAP		g2808662	42	55	0.000000			(AJ223459) Pm1A protein [Emericella nidulans]
23775	ENU07569	ANI61C9063: 8556..7615	22-44	810-829	LINAP		g2132036	104	106	1.00E-24			hypothetical protein YOR049c - yeast (Saccharomyces cerevisiae) ; (Z74957) ORF YOR049c [Saccharomyces cerevisiae]
23776	ENU07570	ANI61C4823: 4928..3780	22-48	810-829	LINAP		g3023275	926	107	1.00E-42	41	27	alpha-glucosidase precursor (maltase) ; alpha-glucosidase (EC 3.2.1.20) - barley ; (U22450) alpha-glucosidase [Hordeum vulgare]
23777	ENU07571	ANI61C9110: 1874..1306	22-45	526-548	LINAP		g1711494	65	37	0.095			"Immunoglobulin G binding protein H precursor (protein H) ; protein H precursor - Streptococcus sp. (group A, strain 40/58) ; (M29398) protein H precursor [Streptococcus sp.] "
23778	ENU07572	ANI61C9578: 4522..4933	23-45	458-479	LINAP		g1263187	72	46	0.0002	26	46	(U24215) HOMODA hydrolase [Pseudomonas putida] ; HOMODA hydrolase [Pseudomonas putida]
23779	ENU07573	ANI61C4906: 2268..1	22-45	726-749	LINAP		g126929	745	139	3.00E-33	48	12	multidrug resistance protein 2 (P-glycoprotein 2) ; multidrug resistance protein 2 - mouse ; (J03398) multidrug resistance protein [Mus musculus]

Gene "GSA" description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23780	ENU07574	ANI61C1715: 1..354	114-133	312-332	LINAP		g2281979	117	50	0.000006			(Z98056) putative glyoxylate pathway regulator [Schizosaccharomyces pombe]
23781	ENU07575	ANI61C9108: 22-47 3744..2763	807-826		LINAP		g1805251	914	339	1.00E-92	55	51	(U58946) transposase [Aspergillus awamori]
23782	ENU07576	ANI61C5784: 22-45 3592..3988	455-479		LINAP		g4165298	85	56	0.000000	28	20	(AL035254) putative transcriptional regulator [Schizosaccharomyces pombe]
23783	ENU07577	ANI61C4909: 23-43 1329..2684	787-806		LINAP		g3913676	405	143	2.00E-33	32	42	Ferric reductase transmembrane component 7 precursor ; probable membrane protein YOL152w - yeast (Saccharomyces cerevisiae) ; (Z48239) orf1 [Saccharomyces cerevisiae] ; (Z74894) ORF YOL152w [Saccharomyces cerevisiae] (AJ131720) alpha integrin binding protein 80 [Homo sapiens] (M80674) hydroxylase [Streptomyces glaucescens] (Z83857) ppsC [Mycobacterium tuberculosis] "hypothetical 43.0 KD protein in cut-GLNX intergenic region ; (AE000170) orf, hypothetical protein [Escherichia coli] ; (D90706) VisC protein [Escherichia coli] "
23784	ENU07578	ANI61C1127 22-48 5:1524..1185	297-319		LINAP		g4468913	210	95	1.00E-19	41	14	(AJ133272) atrophin-1 [Pongo pygmaeus]
23785	ENU07579	ANI61C1709: 102-123 1..367	319-346		LINAP		g769829	143	63	9.00E-10	49	14	(Z74030) predicted using Genefinder; cDNA EST EMBL:C07609 comes from this gene; cDNA EST
23786	ENU07580	ANI61C5854: 23-46 1..1173	803-829		LINAP		g3242253	494	181	6.00E-45	39	11	EMBL:C09023 comes from this gene; cDNA EST yk505e9.3 comes from this gene; cDNA EST yk489h9.3 comes from this gene; cDNA EST yk489h9.5 com...
23787	ENU07581	ANI61C1127 53-72 8:607..1	398-420		LINAP		g3025210	85	46	0.0003			
23788	ENU07582	ANI61C4930: 32-51 989..1	714-741		LINAP		g4467980	127	34	1.8			
23789	ENU07583	ANI61C1127: 32-51 2453..3163	651-670		LINAP		g3875304	370	164	8.00E-40	42	65	

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23790	ENU07584	ANI61C9603: 1311..2844	32-51	807-829	LINAP		g548585	602	165	4.00E-40	47	23	poly [ADP-ribose] polymerase (PARP) (ADPRT) (NAD(+)) ADP-ribosyltransferase (poly[ADP-ribose] synthetase) ; NAD+ ADP-ribosyltransferase (EC 2.4.2.30) - fruit fly (Drosophila melanogaster) ; (D13806) poly(ADP-ribose) polymerase [Drosophila melanogaster] ; (AF051548) poly(ADP-ribose) polymerase [Drosophila melanogaster] hypothetical protein YDL201w - yeast (Saccharomyces cerevisiae) ; (X99000) ORF D1075 [Saccharomyces cerevisiae] ; (Z74249) ORF YDL201w [Saccharomyces cerevisiae] hypothetical 42.2 KD protein C17G8.11C in chromosome I ; (Z69795) unknown [Schizosaccharomyces pombe] lactose permease ; lactose permease - yeast (Kluyveromyces marxianus var. lactis) ; (X06997) lactose permease (AA 1-587) [Kluyveromyces lactis] (Z98533) phosphoribosylformylglycinamide synthase [Schizosaccharomyces pombe] (AL033388) rrm3-pif1 helicase homolog [Schizosaccharomyces pombe] (AL033388) putative calcium-transporting atpase [Schizosaccharomyces pombe] (AF119122) serotonin transporter [Bos taurus]
23791	ENU07585	ANI61C6528: 2266..1157	23-43	806-825	LINAP		g2131358	535	166	1.00E-40	58	66	
23792	ENU07586	ANI61C9619: 91..512	22-45	456-479	LINAP		g1723483	97	68	4.00E-11	27	38	
23793	ENU07587	ANI61C6539: 1..1262	24-43	800-822	LINAP		g125935	574	124	3.00E-45	39	48	
23794	ENU07588	ANI61C5850: 1559..3577	22-45	727-746	LINAP		g2330857	1810	260	4.00E-69	64	20	
23795	ENU07589	ANI61C1130: 0:1245..1	22-45	726-745	LINAP		g3850110	948	185	1.00E-71	52	32	
23796	ENU07590	ANI61C9114: 1..3099	23-50	806-828	LINAP		g3850108	3130	356	8.00E-98	63	22	
23797	ENU07591	ANI61C6538: 1591..2558	22-42	796-815	LINAP		g4588918	353	75	7.00E-29	29	44	

Geneious

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23798	ENU07592	ANI61C1131 4:689..1089	26-53	376-399	LINAP		g130784	126	74	8.00E-13	25	18	Pyrimidine pathway regulatory protein PPR1 - yeast 1 ; regulatory protein PPR1 - yeast (Saccharomyces cerevisiae) ; (X01739) regulatory protein (AA 1-904) [Saccharomyces cerevisiae] ; (Z73186) ORF YLR014c [Saccharomyces cerevisiae]
23799	ENU07593	ANI61C1711: 22-47 5137..3884	22-47	788-807	LINAP		g206877	980	177	4.00E-65	52	48	(M57453) sterol carrier protein-x [Rattus norvegicus]
23800	ENU07594	ANI61C91114: 22-49 4111..4459	22-49	454-479	LINAP		g2501349	89	61	0.000000	34	33	transaldolase ; (D90900) transaldolase [Synecocystis sp.]
23801	ENU07595	ANI61C5845: 22-47 4587..3480	22-47	809-828	LINAP		g1174472	181	60	0.000000	28	47	probable sucrose utilization protein SUC1
23802	ENU07596	ANI61C9134: 22-47 1..1382	22-47	796-815	LINAP		g2330690	481	146	1.00E-34	35	16	(Z98529) putative cytoskeleton assembly control protein [Schizosaccharomyces pombe]
23803	ENU07597	ANI61C1119: 26-53 9244..11350	26-53	728-748	LINAP		g119830	1655	185	2.00E-52	44	15	"fatty acid synthase, subunit alpha [contains: EC 1.1.1.100; EC 2.3.1.41] ; fatty-acid synthase (EC 2.3.1.85) - Penicillium griseofulvum ; (M37461) FAS2 protein [Penicillium patulum] " (U43200) antifreeze glycopeptide AFGP polypeptide precursor [Boreogadus saida] (AJ010902) invertin [Mus musculus]
23804	ENU07598	ANI61C9134: 47-67 1439..2299	47-67	808-827	LINAP		g2078483	129	35	0.61	26	53	hypothetical 102.7 KD protein in PRP16-SRP40 intergenic region ; hypothetical protein YKR089c - yeast (Saccharomyces cerevisiae) ; (Z27116) ORF YKR409 [Saccharomyces cerevisiae] ; (Z28314) ORF YKR089c [Saccharomyces cerevisiae]
23805	ENU07599	ANI61C9625: 24-47 443..1412	24-47	807-829	LINAP		g3757672	248	125	5.00E-28			hypothetical 102.7 KD protein in PRP16-SRP40 intergenic region ; hypothetical protein YKR089c - yeast (Saccharomyces cerevisiae) ; (Z27116) ORF YKR409 [Saccharomyces cerevisiae] ; (Z28314) ORF YKR089c [Saccharomyces cerevisiae]
23806	ENU07600	ANI61C1131 102-129 8:2481..1732	102-129	705-729	LINAP		g549643	284	41	0.000000			probable calcium-transporting ATPase 4 ; probable ATPase (EC 3.6.1.-) YDR093w - yeast (Saccharomyces cerevisiae) ; (Z47746) probable ATPase [Saccharomyces cerevisiae]
23807	ENU07601	ANI61C1721: 22-49 800..2490	22-49	622-649	LINAP		g2493010	1141	320	9.00E-87	55	17	probable calcium-transporting ATPase 4 ; probable ATPase (EC 3.6.1.-) YDR093w - yeast (Saccharomyces cerevisiae) ; (Z47746) probable ATPase [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23808	ENU07602	ANI61C9117: 23-44 2011..2352	451-472	451-472	LINAP	Database Hit	g3560261	328	156	1.00E-37	48	29	(AL031535) RNA binding protein [Schizosaccharomyces pombe]
23809	ENU07603	ANI61C9635: 38-57 258..934	633-656	633-656	LINAP	Database Hit	g2842505	191	112	3.00E-24	42	46	(AL021748) adenosine deaminase [Schizosaccharomyces pombe]
23810	ENU07604	ANI61C6489: 48-67 4892..4135	709-730	709-730	LINAP	Database Hit	g2326250	140	59	0.000000	36	48	(AC004684) hypothetical protein [Arabidopsis thaliana]
23811	ENU07605	ANI61C5883: 23-42 3020..2339	639-661	639-661	LINAP	Database Hit	g1168610	379	99	2.00E-41	04		"Asparagine-rich zinc finger protein AZF1; finger protein AZF1, asparagine-rich - yeast (Saccharomyces cerevisiae); (Z26253) zinc finger protein of 101170 Da [Saccharomyces cerevisiae]; (X90518) ORF O3244 [Saccharomyces cerevisiae]; (X94335) YOR3244w [Saccharomyces cerevisiae]; (Z75021) ORF YOR113w [Saccharomyces cerevisiae]"
23812	ENU07606	ANI61C1718: 22-49 4412..3576	792-815	792-815	LINAP	Database Hit	g171106	195	101	9.00E-21	26	83	(M61773) ATP12 [Saccharomyces cerevisiae]
23813	ENU07607	ANI61C6547: 22-46 493..988	452-479	452-479	LINAP	Database Hit	g1208874	87	70	9.00E-12	30	8	(U50071) C. elegans ankyrin-related unc-44 (GB:U21734) [Caenorhabditis elegans]; (U39847) AO66 ankyrin [Caenorhabditis elegans]
23814	ENU07608	ANI61C1132 6:1590..2375			LINAP	Database Hit	g3417437	227	65	5.00E-10	36	73	(AL031263) putative GTPase-activator protein for Rho-like GTPases [Schizosaccharomyces pombe]
23815	ENU07609	ANI61C1735: 22-43 1650..417	699-721	699-721	LINAP	Database Hit	g1705871	1276	335	e-104	88	48	"citrate synthase, mitochondrial precursor; (D63376) citrate synthase precursor [Aspergillus niger]"
23816	ENU07610	ANI61C1745: 34-59 3133..2756	446-465	446-465	LINAP	Database Hit	g4567277	104	49	0.00002	34	11	(AC006841) putative pol protein with Zn finger CCHC type domain [Arabidopsis thaliana]
23817	ENU07611	ANI61C5888: 156-183 4057..3501	448-467	448-467	LINAP	Database Hit	g1083757	323	112	1.00E-31	43	15	plasma membrane Ca2+-ATPase isoform 4 - rat; (U15408) plasma membrane Ca2+-ATPase isoform 4 [Rattus norvegicus]

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23818	ENU07612	ANI61C1135 3:746..396	22-45	451-478	LINAP		g586486	99	48	0.00005	29	23	hypothetical 77.3 KD protein in FIG1- GIP1 intergenic region ; probable membrane protein YBR043c - yeast (Saccharomyces cerevisiae) ; (Z35912) ORF YBR043c [Saccharomyces cerevisiae] (AL035263) homoserine dehydrogenase [Schizosaccharomyces pombe] (AL023705) hypothetical protein [Schizosaccharomyces pombe] (AB004537) methionyl-tRNA synthetase [Schizosaccharomyces pombe] (U07187) Mlh1p [Saccharomyces cerevisiae] (M33703) Hex2 protein [Saccharomyces cerevisiae] (Z98979) putative phosphatidylserine decarboxylase proenzyme [Schizosaccharomyces pombe] UV radiation resistance associated gene ; (X99050) p63 (processed form) [Homo sapiens] (U29156) involved in signaling by the epidermal growth factor receptor; Method: conceptual translation supplied by author. [Mus musculus] (AF000975) 7-O-methyltransferase [Medicago sativa] probable membrane protein YOR019w - yeast (Saccharomyces cerevisiae) ; (X87331) ORF OR26.09 [Saccharomyces cerevisiae] ; (Z74927) ORF YOR019w [Saccharomyces cerevisiae]
23819	ENU07613	ANI61C2700: 27-45 639..1	27-45	566-585	LINAP		g4176520	524	219	1.00E-56	51	55	
23820	ENU07614	ANI61C6547: 22-49 2952..2523	22-49	452-479	LINAP		g3169083	115	92	2.00E-18	34	48	
23821	ENU07615	ANI61C9647: 50-70 1..368	50-70	309-328	LINAP		g2257528	54	52	0.000000 03			
23822	ENU07616	ANI61C658:3 30-57 00..755	30-57	376-399	LINAP		g460627	231	125	3.00E-28	43	20	
23823	ENU07617	ANI61C1736: 58-77 1872..1548	58-77	422-441	LINAP		g171666	185	94	2.00E-21	47	10	
23824	ENU07618	ANI61C2666: 60-79 361..1	60-79	432-451	LINAP		g2388966	107	62	0.000000 002	26	16	
23825	ENU07619	ANI61C9142: 22-47 452..1659	22-47	802-829	LINAP		g4507861	260	108	4.00E-23	27	43	
23826	ENU07620	ANI61C9630: 22-43 4371..2964	22-43	781-800	LINAP		g968973	309	124	7.00E-28	29	30	
23827	ENU07621	ANI61C6496: 35-55 6254..5908	35-55	455-475	LINAP		g2580582	95	65	4.00E-10			
23828	ENU07622	ANI61C5884: 30-53 2369..1036	30-53	800-819	LINAP		g1078035	101	32	4			
23829	ENU07623	ANI61C9145: 102-120 1..814	102-120	694-713	LINAP		g1335892	212	79	3.00E-19	33	10	ASH1 [Drosophila melanogaster]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23830	ENU07624	ANI61C9601: 35-55 930..1297	55-55	452-479	LINAP		g1351343	103	36	0.23	30	11	positive regulator of purine utilisation ; positive regulator of purine utilisation - Emericella nidulans ; (X84015)
23831	ENU07625	ANI61C6553: 24-43 3275..2800	24-43	452-479	LINAP		g1673402	145	65	3.00E-10			positive regulator of purine utilisation [Emericella nidulans] (Z82044) hypothetical 54.4 kd protein [Bacillus subtilis]
23832	ENU07626	ANI61C1734: 47-74 5554..4663	47-74	806-828	LINAP		g3327206	300	150	9.00E-36	39	41	(AB014596) KIAA0696 protein [Homo sapiens]
23833	ENU07627	ANI61C2767: 27-46 651..1125	27-46	375-394	LINAP		g1168457	101	85	2.00E-16	35	8	ANKYRIN ; ankyrin - mouse ; (M84756) ankyrin [Mus musculus] (U46069) fertilin alpha subunit [Oryctolagus cuniculus]
23834	ENU07628	ANI61C9145: 22-49 2397..1682	22-49	671-695	LINAP		g1245061	78	55	0.000000	4		Pyrimidine pathway regulatory protein 1 ; regulatory protein PPR1 - yeast (Saccharomyces cerevisiae) ; (X01739) regulatory protein (AA 1-904) [Saccharomyces cerevisiae] ; (Z73186) ORF YLR014c [Saccharomyces cerevisiae]
23835	ENU07629	ANI61C9601: 55-74 1822..2247	55-74	422-442	LINAP		g130784	79	74	8.00E-13	31	18	
23836	ENU07630	ANI61C1131: 22-45 2884..1508	22-45	805-827	LINAP		g3261605	579	146	6.00E-43	41	13	(Z74697) ppsA [Mycobacterium tuberculosis]
23837	ENU07631	ANI61C1757: 22-45 1867..2501	22-45	568-590	LINAP		g3184102	185	127	7.00E-29	37	32	(AL023777) hypothetical protein [Schizosaccharomyces pombe]
23838	ENU07632	ANI61C2764: 65-91 1339..358	65-91	803-829	LINAP		g1147800	1005	254	e-101	78	57	(U43720) Sug2p [Saccharomyces cerevisiae]
23839	ENU07633	ANI61C9144: 22-46 2094..2560	22-46	458-479	LINAP		g2388584	69	38	0.046			(AC000098) EST gb ATTS1136 comes from this gene. [Arabidopsis thaliana] hypothetical 44.9 KD protein C18B11.02C in chromosome I ; hypothetical protein SPAC18B11.02c - fission yeast (Schizosaccharomyces pombe) ; (Z50728) hypothetical protein [Schizosaccharomyces pombe]
23840	ENU07634	ANI61C6543: 22-49 659..1663	22-49	808-827	LINAP		g1175381	773	251	5.00E-66	50	63	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23841	ENU07635	ANI61C5903: 496..1	121-142	461-479	LINAP		g115875	155	85	2.00E-16	33	48	CBP3 protein precursor ; membrane protein CBP3 - yeast (Saccharomyces cerevisiae) ; (J04830) CBP3 protein [Saccharomyces cerevisiae] ; (Z73571) ORF YPL215w [Saccharomyces cerevisiae] (X97001) LR8B [Gallus gallus]
23842	ENU07636	ANI61C1747: 31-50	430-450		LINAP		g1595750	34	59	0.000000			Pectate lyase L precursor ; (L42248)
23843	ENU07637	ANI61C2775: 22-48	682-705		LINAP		g3914287	134	69	2.00E-16	30	50	pectate lyase [Erwinia chrysanthemi] "(AC002292) similar to ""Mx"" GTP-binding proteins [Arabidopsis thaliana]
23844	ENU07638	ANI61C9628: 23-46	493-512		LINAP		g2462747	44	49	0.00002	32	17	hypothetical 70.6 KD protein in PGDI-STT3 intergenic region ; hypothetical protein YGL023c - yeast (Saccharomyces cerevisiae) ; (Z72545) ORF YGL023c [Saccharomyces cerevisiae]
23845	ENU07639	ANI61C5931: 29-48	438-457		LINAP		g1723807	161	54	0.000000	21	25	"(AL021837) SPBC947.05c, ferric reductase transmembrane component, (possibility of intron between 15640-15725 but FASTA suggests not), len:564aa, similar eg. to S. pombe, FRP1_SCHPO, Q04800, ferric reductase transmembrane compon..."
23846	ENU07640	ANI61C1135 28-48	805-829		LINAP		g2894292	68	63	0.000000			(AE000948) 3-hydroxyacyl-CoA dehydrogenase (hbd-10) [Archaeoglobus fulgidus] (AL031740) putative calcium dependant serine-threonine protein kinase. [Schizosaccharomyces pombe]
23847	ENU07641	ANI61C1747: 3506..2751	109-128	710-735	LINAP		g2648250	178	97	1.00E-19	31	33	Quinic acid utilization activator ; regulatory protein QUTA - Emericella nidulans ; (X06252) QUTA protein (AA 1 - 825) [Emericella nidulans] (AL023533) hypothetical protein [Schizosaccharomyces pombe]
23848	ENU07642	ANI61C9161: 1266..1	22-48	722-744	LINAP		g3650382	579	190	8.00E-48	38	28	
23849	ENU07643	ANI61C9628: 3696..4135	43-61	459-478	LINAP		g131767	63	53	0.000001			
23850	ENU07644	ANI61C2801: 1..321	115-132	270-289	LINAP		g3130058	167	47	2.00E-11	51	11	

Genomic Context

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23851	ENU07645	ANI61C6552: 22-44 5929..4882	803-822	803-822	LINAP		g1208874	430	167	8.00E-41	34	15	(U50071) C. elegans ankyrin-related unc-44 (GB:U21734) [Caenorhabditis elegans] ; (U39847) AO66 ankyrin [Caenorhabditis elegans]
23852	ENU07646	ANI61C1137 22-48 9:4059..4439	375-397	375-397	LINAP		g3023956	87	75	3.00E-13			vegetable incompatibility protein HET-E-1 ; (L28125) beta transducin-like protein [Podospora anserina]
23853	ENU07647	ANI61C1765: 75-94 864..1	729-749	729-749	LINAP		g2499128	220	79	4.00E-18	34	38	vacuolar protein sorting-associated protein VPS5 ; (U73512) Vps5p [Saccharomyces cerevisiae] ; (U84735) Vps5p [Saccharomyces cerevisiae]
23854	ENU07648	ANI61C2801: 79-98 959..1393	356-380	356-380	LINAP		g2497170	97	44	0.0008			hypothetical 85.0 KD protein in HLJ1-SMP2 intergenic region ; hypothetical protein YMR164c - yeast (Saccharomyces cerevisiae) ; (Z49705) unknown [Saccharomyces cerevisiae] TRNA splicing protein SPL1 ; (AF000115) tRNA splicing protein [Candida maltosa]
23855	ENU07649	ANI61C6608: 75-94 254..836	359-381	359-381	LINAP		g2492879	698	290	6.00E-78	72	39	(Z99104) similar to cell-cycle protein [Bacillus subtilis]
23856	ENU07650	ANI61C1139 32-59 5:204..1067	803-829	803-829	LINAP		g2632334	75	61	0.000000			(X71807) uric acid-xanthine permease [Emericella nidulans]
23857	ENU07651	ANI61C1807: 480..1820			LINAP		g3286685	1908	392	e-121	92	39	(AJ012627) haloalkane dehalogenase [Mycobacterium sp.]
23858	ENU07652	ANI61C9140: 22-49 1710..2011	449-468	449-468	LINAP		g3860531	94	41	0.000000	28	37	(AL021839) putative nuclear pore protein [Schizosaccharomyces pombe]
23859	ENU07653	ANI61C1806: 23-42 1773..2999	721-740	721-740	LINAP		g2894271	326	112	3.00E-24	30	69	(AC000133) ORF [Emericella nidulans]
23860	ENU07654	ANI61C9147: 49-68 3471..4684	805-824	805-824	LINAP		g1870209	245	111	5.00E-24	28	50	(AL035065) putative urea active transporter [Schizosaccharomyces pombe]
23861	ENU07655	ANI61C59:11 22-41 36..361	537-556	537-556	LINAP		g4106690	339	109	2.00E-28	48	30	hypothetical 59.1 KD protein ZK637.1 in chromosome III
23862	ENU07656	ANI61C1140 24-47 3:689..292	448-467	448-467	LINAP		g586797	57	70	1.00E-11			"(X80835) len: 676, CAL: 0.13 [Saccharomyces cerevisiae] "
23863	ENU07657	ANI61C7181: 25-52 1094..1718	584-603	584-603	LINAP		g530340	141	65	4.00E-10	25	30	(AL049498) rho1 gdp-gtp exchange protein 1 [Schizosaccharomyces pombe]
23864	ENU07658	ANI61C7196: 1384..1			LINAP		g4539279	1069	346	2.00E-94	64	20	

Gene Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23865	ENU07659	ANI61C2840: 32-58 2281..1	713-732	713-732	LINAP		g2500542	1356	79	1.00E-18			putative ATP-dependent RNA helicase YMR128W ; probable membrane protein YMR128w - yeast (Saccharomyces cerevisiae) ; (Z48622) unknown [Saccharomyces cerevisiae] (AJ011965) oxidoreductase [Claviceps purpurea] choline-phosphate cytidyltransferase (EC 2.7.7.15) - yeast (Saccharomyces cerevisiae) ; (Z49133) cholinephosphate cytidyltransferase [Saccharomyces cerevisiae] ; (Z72987) ORF YGR202c [Saccharomyces cerevisiae]
23866	ENU07660	ANI61C9655: 56-76 1827..1442	314-333	314-333	LINAP		g4499843	124	52	0.000001			
23867	ENU07661	ANI61C6602: 22-49 829..1979	808-829	808-829	LINAP		g2144437	640	178	2.00E-69	55	57	
23868	ENU07662	ANI61C2875: 28-50 978..595	266-289	266-289	LINAP		g728783	204	126	1.00E-28	41	21	putative aconitase in PRP21-UBP12 intergenic region ; aconitate hydratase homolog YJL200c - yeast (Saccharomyces cerevisiae) ; (X77688) hypothetical protein J0327 [Saccharomyces cerevisiae] ; (Z49475) ORF YJL200c [Saccharomyces cerevisiae]
23869	ENU07663	ANI61C9645: 45-64 2268..3125	785-803	785-803	LINAP		g4008556	296	111	2.00E-32	40	69	(AL034490) putative lectin precursor [Schizosaccharomyces pombe]
23870	ENU07664	ANI61C183:1 22-42 137..1	729-749	729-749	LINAP		g3182891	1746	513	e-145	98	70	Actin ; (AJ000335) actin [Botryotinia fuckeliana]
23871	ENU07665	ANI61C2835: 23-50 1..2645	798-817	798-817	LINAP		g3510629	525	123	1.00E-27	32	2	(AF047828) syringomycin synthetase [Pseudomonas syringae pv. syringae]
23872	ENU07666	ANI61C9163: 22-49 616..1967	805-829	805-829	LINAP		g4099313	386	161	3.00E-40	42	2	(U85909) peptide synthetase [Aureobasidium pullulans]
23873	ENU07667	ANI61C6535: 22-44 9996..9601	429-448	429-448	LINAP		g630885	124	71	4.00E-12	32	39	"Sp1/egr-like zinc-finger protein - fruit fly (Drosophila sp.) ; (S71230) Sp1/egr-like zinc-finger protein=hkb [Drosophila, 0-4 hr embryos, Peptide, 296 aa] [Drosophila sp.] ; huckebein gene [Drosophila melanogaster] "
23874	ENU07668	ANI61C1758: 23-50 1213..565	609-628	609-628	LINAP		g2459421	312	94	6.00E-29	47	74	(AC002332) putative calcium-binding EF-hand protein [Arabidopsis thaliana]

Sequence

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23875	ENU07669	ANI61C9146: 1..595	222-241	363-380	LINAP		g128831	641	200	5.00E-67			"mitochondrial nuclease ; nuclease NUC1 (EC 3.1.30.-) precursor, mitochondrial - yeast (Saccharomyces cerevisiae) ; (X06670) nuclease [Saccharomyces cerevisiae] ; (Z34098) ORF [Saccharomyces cerevisiae] ; (X77688) mitochondrial nuclease [Saccharomyces cerevisiae] ; (Z49483) ORF YJL208c [Saccharomyces cerevisiae] "
23876	ENU07670	ANI61C9678: 1001..1846	22-45	795-815	LINAP		g730615	139	118	6.00E-26			DNA-directed RNA polymerase mitochondrial precursor ; (L25087) mitochondrial RNA polymerase [Neurospora crassa] ; cyt-5 gene [Neurospora crassa]
23877	ENU07671	ANI61C6535: 9039..8508	110-137	491-510	LINAP		g1345773	116	35	0.33			Chromodomain-helicase-DNA-binding protein 1 (CHD-1) ; (L10410) DNA-binding protein [Mus musculus]
23878	ENU07672	ANI61C59:45 22-45 75..5192	22-45	561-580	LINAP		g2851420	181	103	9.00E-22	27	26	"hypothetical 88.1 KD protein in GLTS-SELC intergenic region ; (AE000443) orf, hypothetical protein [Escherichia coli] "
23879	ENU07673	ANI61C7187: 3306..2556	36-53	622-641	LINAP		g586312	107	55	6.00E-14	24	37	hypothetical 63.4 KD protein in SMY2-RPS101 intergenic region ; probable resistance protein - yeast (Saccharomyces cerevisiae) ; (Z36049) ORF YBR180w [Saccharomyces cerevisiae]
23880	ENU07674	ANI61C6605: 485..850	22-49	422-441	LINAP		g2132942	67	65	4.00E-10			probable membrane protein YOR306c - yeast (Saccharomyces cerevisiae) ; (Z75214) ORF YOR306c [Saccharomyces cerevisiae]
23881	ENU07675	ANI61C5928: 3691..2752	26-53	744-767	LINAP		g2414637	988	332	2.00E-90	58	37	(Z99260) probable na(+)-h(+) antiporter [Schizosaccharomyces pombe]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23882	ENU07676	ANI61C1139 7:4176..2829	23-42	808-829	LINAP		g729417	403	142	3.00E-41	38	42	GAA1 protein ; membrane protein END2 - yeast (Saccharomyces cerevisiae) ; (X79409) Gaa1 [Saccharomyces cerevisiae] ; (U53880) Gaa1p [Saccharomyces cerevisiae] ; (Z73260) ORF YLR088w [Saccharomyces cerevisiae] (AJ223999) PCZA363.5 [Amycolatopsis orientalis] (M77661) putative pol polyprotein [Magnaporthe grisea] hypothetical 50.6 KD protein in RPL14B-GPA1 intergenic region ; hypothetical protein YHR004c - yeast (Saccharomyces cerevisiae) ; (U10555) Yhr004cp [Saccharomyces cerevisiae] (AL049521) hypothetical protein [Schizosaccharomyces pombe] (AB015510) FII-CMCCase [Aspergillus aculeatus] hypothetical 65.3 KD protein in PRE3- SAG1 intergenic region ; hypothetical protein YJR001w - yeast (Saccharomyces cerevisiae) ; (X87611) ORF YJR83.4 [Saccharomyces cerevisiae] ; (Z49501) ORF YJR001w [Saccharomyces cerevisiae] (AL023592) ma binding protein [Schizosaccharomyces pombe] "N2,N2-dimethylguanosine tRNA methyltransferase precursor ; N2,N2- dimethylguanine tRNA methyltransferase - yeast (Saccharomyces cerevisiae) ; (M17193) tRNA dimethyltransferase [Saccharomyces cerevisiae] ; (Z48758) Trm1p [Saccharomyces cerevisiae] "
23883	ENU07677	ANI61C6605: 1777..2165	22-49	451-470	LINAP		g2894190	71	58	0.000000	30	6	
23884	ENU07678	ANI61C1136: 2200..906	63-90	733-760	LINAP		g538067	463	176	2.00E-43	39	20	
23885	ENU07679	ANI61C2838: 4406..5240	28-47	781-808	LINAP		g731630	339	94	5.00E-34	41	53	
23886	ENU07680	ANI61C9153: 3411..2201	35-54	771-790	LINAP		g4539592	458	115	1.00E-41	35	46	
23887	ENU07681	ANI61C6623: 430..1	117-137	453-479	LINAP		g3242653	262	87	2.00E-23	57	27	
23888	ENU07682	ANI61C5970: 378..1	107-127	454-478	LINAP		g1353046	302	134	4.00E-31	39	27	
23889	ENU07683	ANI61C1139 9:3306..4594	22-41	723-749	LINAP		g3136059	194	98	1.00E-19	27	19	
23890	ENU07684	ANI61C7223: 1606..1	29-50	611-630	LINAP		g136242	781	146	1.00E-34	42	42	

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted October 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23891	ENU07685	ANI61C6601: 3930..3485	22-45	445-465	LINAP		g1176495	94	111	4.00E-24	36	22	hypothetical 79.4 KD protein in PRP16-SRP40 intergenic region ; (Z28315) ORF YKR090w [Saccharomyces cerevisiae]
23892	ENU07686	ANI61C9170: 22-42 3667..4819	22-42	772-799	LINAP		g3876393	843	138	5.00E-47	53	68	(Z79695) Similarity to Human 2-oxoisovalerate dehydrogenase (SW:ODBB_HUMAN) [Caenorhabditis elegans]
23893	ENU07687	ANI61C9674: 22-47 807..441	22-47	452-471	LINAP		g3912958	128	44	0.000003	47	24	alpha-L-arabinofuranosidase precursor (arabinosidase) ; (AL021411) arabinofuranosidase [Streptomyces coelicolor]
23894	ENU07688	ANI61C1139: 34-53 1905..1591	34-53	452-479	LINAP		g1934826	71	50	0.000008	30	47	(Z93938) unknown [Bacillus subtilis]
23895	ENU07689	ANI61C9184: 30-57 2382..2699	30-57	457-479	LINAP		g3947870	52	36	0.23			(AL034382) hypothetical protein [Schizosaccharomyces pombe]
23896	ENU07690	ANI61C6633: 39-58 627..969	39-58	448-475	LINAP		g3646455	436	88	3.00E-17	73	43	(AL031603) 60s ribosomal protein [Schizosaccharomyces pombe]
23897	ENU07691	ANI61C5982: 56-75 1258..541	56-75	665-684	LINAP		g1730644	271	120	1.00E-26	32	36	hypothetical 73.4 KD protein in ERG24-MET2 intergenic region ; probable membrane protein YNL279w - yeast (Saccharomyces cerevisiae) ; (Z71555) ORF YNL279w [Saccharomyces cerevisiae]
23898	ENU07692	ANI61C1139: 68-87 2758..2293	68-87	430-449	LINAP		g3915558	122	73	1.00E-12	33	44	hypothetical 36.5 KD protein in GBSA-TLPB intergenic region ; (Z99119) similar to hypothetical proteins [Bacillus subtilis]
23899	ENU07693	ANI61C1869: 26-45 662..1	26-45	519-546	LINAP		g2492777	413	113	5.00E-35	47	59	hypothetical zinc-type alcohol dehydrogenase-like protein in PRE5-FET4 intergenic region ; hypothetical protein YMR318c - yeast (Saccharomyces cerevisiae) ; (Z54141) unknown [Saccharomyces cerevisiae]
23900	ENU07694	ANI61C5985: 44-64 512..1	44-64	453-480	LINAP		g3885836	196	67	8.00E-11	41	24	(AF091042) putative cercosporin transporter [Cercospora kikuchii]
23901	ENU07695	ANI61C1907: 52-71 534..1	52-71	456-475	LINAP		g2315274	159	88	4.00E-17	40	46	(Y11113) endoglucanase IV [Hypocrea jecorina]

Gene ID "065446"

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23914	ENU07708	ANI61C9673: 24-43 5828..5111	24-43	481-502	LINAP		g1806234	134	68	4.00E-17	31	78	(Z84498) hypothetical protein Rv1928c [Mycobacterium tuberculosis]
23915	ENU07709	ANI61C5961: 22-45 2804..2047	22-45	705-732	LINAP		g4501975	80	43	0.002			beta3A-adaptin ; (U91931) AP-3 complex beta3A subunit [Homo sapiens]
23916	ENU07710	ANI61C1036 22-49 3:1246..1693	22-49	453-479	LINAP		g3417427	94	45	0.0005			(AL031262) hypothetical protein [Schizosaccharomyces pombe]
23917	ENU07711	ANI61C2978: 63-90 668..1	63-90	557-582	LINAP		g1706559	118	54	0.000000 31 003	31	32	Ethanolamine kinase (easily shocked protein) ; (L35603) ethanolamine kinase [Drosophila melanogaster]
23918	ENU07712	ANI61C9701: 27-47 3206..3928	27-47	585-604	LINAP		g3850091	319	128	2.00E-37	43	42	(AL033389) putative aminotransferase [Schizosaccharomyces pombe]
23919	ENU07713	ANI61C6593: 2302..1			LINAP		g586510	1022	118	1.00E-35	45	28	hypothetical 108.0 KD helicase in HSP26-TIF32 intergenic region ; probable DNA repair protein - yeast (Saccharomyces cerevisiae) ; (X76294) ORF YBRO715; homologous to Rad54 Snf2 and Sth1 of S.cerevisiae [Saccharomyces cerevisiae] ; (Z35942) ORF YBR073w [Saccharomyces cerevisiae]
23920	ENU07714	ANI61C599:2 23-48 247..1	23-48	719-737	LINAP		g1174555	1182	170	5.00E-49	43	28	putative transcription initiation factor TFIID 111 KD subunit (TBP-associated factor 111 KD) (TAFII-111) ; hypothetical protein SPAC2G11.14 - fission yeast (Schizosaccharomyces pombe) ; (Z54354) putative transcription initiation factor tfiid subunit [Schizosaccharomyces pombe]
23921	ENU07715	ANI61C1044 38-57 3:2002..2587	38-57	531-551	LINAP		g624076	80	45	0.0004			"(U42580) contains Pro-rich Px motifs: SPKPP (20X), PEPPA (9X); similar to soybean pro-rich cell wall protein, corresponds to Swiss-Prot Accession Number P13993 [Paramecium bursaria Chlorella virus 1]"
23922	ENU07716	ANI61C9675: 24-43 5744..6242	24-43	454-478	LINAP		g1085697	123	80	1.00E-14	29	36	chitin deacetylase - Mucor rouxii (fragment)
23923	ENU07717	ANI61C5953: 24-43 993..555	24-43	453-479	LINAP		g4456816	371	126	9.00E-29	34	17	(AL035548) hypothetical protein [Schizosaccharomyces pombe]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23924	ENU07718	ANI61C2959: 22-48 1..1071	778-798	LINAP			g3877858	130	41	0.008	21	24	Similarity with drosophila (Z34801) Similarity with drosophila MSP-300 protein (PIR acc. no. S30431) [Caenorhabditis elegans]; (Z66514) Similarity with drosophila MSP-300 protein (PIR acc. no. S30431) [Caenorhabditis elegans] (X93302) Msn5 protein [Saccharomyces cerevisiae] (AF111068) DNA polymerase gamma [Neurospora crassa] "alcohol dehydrogenase (ADH-T); alcohol dehydrogenase (EC 1.1.1.1), thermostable - Bacillus stearothermophilus; (D90421) alcohol dehydrogenase [Bacillus stearothermophilus] " (AB001895) B120 [Homo sapiens] (AL023534) hypothetical protein [Schizosaccharomyces pombe] (AF051140) putative glucose transporter protein [Schizosaccharomyces pombe] "(AE001002) ATP-dependent RNA helicase, putative [Archaeoglobus fulgidus] " hypothetical 93.9 KD helicase C19G10.02 in chromosome 1; (Z69909) dna repair protein [Schizosaccharomyces pombe] (AL022600) hypothetical protein [Schizosaccharomyces pombe] hypothetical 187.1 KD protein in OGG1-CNA2 intergenic region; probable membrane protein YML059c - yeast (Saccharomyces cerevisiae); (Z46729) unknown [Saccharomyces cerevisiae]
23925	ENU07719	ANI61C9693: 29-56 3518..378	805-829	LINAP			g1246837	411	61	0.000000			
23926	ENU07720	ANI61C7224: 22-49 3886..663	802-829	LINAP			g4455007	3371	377	e-104	67	21	
23927	ENU07721	ANI61C6624: 41..971		LINAP			g1168347	270	53	9.00E-17	34	65	
23928	ENU07722	ANI61C1059 24-43 0:2443..1234	804-823	LINAP			g2588991	148	38	0.12			
23929	ENU07723	ANI61C3017: 102-120 1011..410	471-490	LINAP			g3130035	348	129	2.00E-32	40	29	
23930	ENU07724	ANI61C9716: 22-44 947..1	773-796	LINAP			g3746450	135	59	0.000000	27	36	
23931	ENU07725	ANI61C6617: 40-59 1820..3569	791-810	LINAP			g2649107	798	119	3.00E-31	33	35	
23932	ENU07726	ANI61C6009: 87-106 1244..451	666-685	LINAP			g1723497	371	187	6.00E-47	47	27	
23933	ENU07727	ANI61C6621: 39-62 4620..3659	761-780	LINAP			g3080533	258	145	5.00E-34	42	33	
23934	ENU07728	ANI61C600:1 26-53 273..1	723-742	LINAP			g2501686	596	207	9.00E-53	42	16	

Genomic Region

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23935	ENU07729	ANI61C6011: 610..1027	34-53	413-432	LINAP		g2120949	94	64	5.00E-10	36	22	lipase-like enzyme - Alcaligenes eutrophus ; (L36817) lipase-like enzyme [Alcaligenes eutrophus] ; ORF 8 [Ralstonia eutropha]
23936	ENU07730	ANI61C6030: 22-47	22-47	427-454	LINAP		g4098421	132	71	7.00E-12	35	19	(U77581) sugar transporter 3 [Pichia stipitis]
23937	ENU07731	ANI61C3004: 22-49	22-49	737-764	LINAP		g1169440	5402	321	e-135	96	6	"Dynein heavy chain, cytosolic (DYHC) ; cytoplasmic dynein heavy chain - Emericella nidulans ; (U03904) cytoplasmic dynein [Emericella nidulans]"
23938	ENU07732	ANI61C972:1 37-58	37-58	409-433	LINAP		g2842510	204	106	1.00E-22	45	15	(AL021748) hypothetical protein [Schizosaccharomyces pombe]
23939	ENU07733	ANI61C9702: 68-87	68-87	735-759	LINAP		g2497203	164	48	3.00E-13	26	15	hypothetical 180.2 KD protein in FAA4-HOR7 intergenic region ; probable membrane protein YMR247c - yeast (Saccharomyces cerevisiae)
23940	ENU07734	ANI61C6675: 918..1244			LINAP		g1723187	107	39	0.00005			"112.3 KD protein in PYK1-SNC1 intergenic region ; FUN12 protein - yeast (Saccharomyces cerevisiae) ; (U12980) Fun12p: 97kDa protein, function unknown [Saccharomyces cerevisiae]"
23941	ENU07735	ANI61C1136 122-145	122-145	442-467	LINAP		g1764098	51	41	0.004			(U81794) putative permease [Uromyces fabae]
23942	ENU07736	ANI61C9235: 32-52	32-52	403-425	LINAP		g3929366	714	155	1.00E-50	77	73	40S ribosomal protein S7 ; (U73847) ribosomal protein [Neurospora crassa]
23943	ENU07737	ANI61C7286: 33-52	33-52	655-673	LINAP		g625653	575	136	3.00E-51	54	27	ATP-dependent proteinase BsgA - Myxococcus xanthus
23944	ENU07738	ANI61C9700: 22-48	22-48	439-466	LINAP		g121649	150	51	8.00E-17	31	17	GRR1 protein ; GRR1 protein - yeast (Saccharomyces cerevisiae) ; (M59247) putative [Saccharomyces cerevisiae] ; (Z49590) ORF YJR090c [Saccharomyces cerevisiae] ; (L47993) ORF YJR090c [Saccharomyces cerevisiae]
23945	ENU07739	ANI61C1500: 22-45	22-45	366-385	LINAP		g2257705	141	71	3.00E-12	31	11	(D63905) ubiquitin ligase [Saccharomyces cerevisiae]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23946	ENU07740	ANI61C7292: 1197..496	22-49	639-658	LINAP		g2887409	90	60	0.000000 02	30	27	(AB007877) KIAA0417 [Homo sapiens]
23947	ENU07741	ANI61C6688: 907..1343	116-135	381-399	LINAP		g4582195	195	100	8.00E-21	34	17	(Z99532) hypothetical protein [Schizosaccharomyces pombe]
23948	ENU07742	ANI61C1432: 3416..3809	47-73	262-289	LINAP		g1166378	80	44	0.0008	26	14	"(L76169) reverse transcriptase, RNaseH [Glomerella cingulata]"
23949	ENU07743	ANI61C9221: 592..1377	22-40	745-765	LINAP		g1711542	80	48	0.00007	23	76	SSO2 protein; syntaxin-related protein SSO2 - yeast (Saccharomyces cerevisiae); (Z49808) unknown [Saccharomyces cerevisiae]
23950	ENU07744	ANI61C9697: 4700..4381	62-81	414-433	LINAP		g4100623	97	62	0.000000 003	32	27	(AF001630) SH3P18-like WASP associated protein [Homo sapiens]
23951	ENU07745	ANI61C7292: 1644..1233	22-43	457-476	LINAP		g115573	46	41	0.004			CAMP binding protein CABP1A/CABP1B (CABP1 protein); CABP1 protein - slime mold (Dictyostelium discoideum); (X52688) CABP1 protein [Dictyostelium discoideum]; (M36176) cAMP binding protein [Dictyostelium discoideum] (AL033497) unknown hypothetical protein [Candida albicans]
23952	ENU07746	ANI61C6692: 1..345	102-126	293-312	LINAP		g3859703	104	48	0.00002	34	12	ryanodine receptor [Oryctolagus cuniculus]
23953	ENU07747	ANI61C1726: 903..1554	40-59	594-613	LINAP		g226386	88	45	0.0004	28	2	(Z99714) bK1048E9.2 (similar to CE02118) [Homo sapiens]
23954	ENU07748	ANI61C6692: 954..1488	44-68	413-434	LINAP		g4455408	137	78	6.00E-14	22	31	6-hydroxy-D-nicotine oxidase (6-HDNO); (X05999) 6-hydroxy-D-nicotine oxidase [Arthrobacter oxidans]
23955	ENU07749	ANI61C3030: 1689..1370	39-58	277-299	LINAP		g122805	170	62	0.000000 002	39	23	melanin biosynthetic polyketide synthase PKS1 - Colletotrichum lagenarium; (D83643) polyketide synthase [Colletotrichum lagenarium] (U53876) Cdc45p: assembles into a complex with Cdc46p/Mcm5p [Saccharomyces cerevisiae]
23956	ENU07750	ANI61C923:3 457..2487	50-69	809-829	LINAP		g2147662	86	64	0.000000 001	21	10	transcription factor nft1 - fission yeast (Schizosaccharomyces pombe)
23957	ENU07751	ANI61C9750: 1120..549	70-92	520-539	LINAP		g1256852	202	34	0.85			
23958	ENU07752	ANI61C7276: 717..341	22-42	457-477	LINAP		g626072	69	54	0.000000 7	26	16	

Genomic Context

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23968	ENU07762	ANI61C3806: 22-49 1576..2142	22-49	528-546	LINAP		g586486	114	65	4.00E-10	23	24	hypothetical 77.3 KD protein in FIG1-GIP1 intergenic region ; probable membrane protein YBR043c - yeast (Saccharomyces cerevisiae) ; (Z35912) ORF YBR043c [Saccharomyces cerevisiae]
23969	ENU07763	ANI61C6661: 22-49 1080..1751	22-49	627-649	LINAP		g2257523	319	159	2.00E-38	43	57	(AB004537) lipote-protein ligase A [Schizosaccharomyces pombe]
23970	ENU07764	ANI61C297:9 744..10255			LINAP		g4160573	125	60	4.00E-11	34	16	(AL035226) guanine nucleotide binding protein beta subunit-like [Schizosaccharomyces pombe]
23971	ENU07765	ANI61C3818: 22-41 2391..1914	22-41	440-459	LINAP		g3006139	352	100	2.00E-37	54	37	(AL022299) hypothetical protein [Schizosaccharomyces pombe]
23972	ENU07766	ANI61C9698: 22-43 8097..8486	22-43	427-451	LINAP		g1708501	84	49	0.000000	34	7	Integrin alpha chain-like protein (alpha-INT1) ; (U35070) integrin-like protein alpha Int1p [Candida albicans]
23973	ENU07767	ANI61C7307: 67-94 523..1333	67-94	768-790	LINAP		g136125	166	94	9.00E-19	30	30	putative AC transposase (ORFA) ; (X05424) ORFa [Zea mays]
23974	ENU07768	ANI61C6716: 111-130 2520..2076	111-130	341-360	LINAP		g731872	66	65	2.00E-10			"putative 108.8 KD transcriptional regulatory protein in FKH1-STH1 intergenic region ; probable membrane protein YIL130w - yeast (Saccharomyces cerevisiae) ; (Z38059) orf, len: 964, CAl: 0.15, possible regulatory protein [Saccharomyces cerevisiae]"
23975	ENU07769	ANI61C1918: 22-40 2568..660	22-40	796-815	LINAP		g113449	1374	168	4.00E-41	55	25	"probable ATP-dependent permease precursor ; ATP-dependent permease ADP1 precursor - yeast (Saccharomyces cerevisiae) ; (X59720) YCR011c, len:1049 [Saccharomyces cerevisiae]"
23976	ENU07770	ANI61C3066: 22-44 879..134	22-44	660-679	LINAP		g2246452	106	50	0.00002	31	34	(U71107) S-adenosyl-methionine-sterol-C-methyltransferase homolog [Nicotiana tabacum]
23977	ENU07771	ANI61C9727: 33-53 642..1451	33-53	758-779	LINAP		g2656003	734	271	4.00E-72	69	74	(Z98980) hypothetical protein [Schizosaccharomyces pombe]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23978	ENU07772	ANI61C6686: 22-49 981..219	563-584	LINAP			g731298	219	59	5.00E-16	36	35	probable transporter SEO1 ; probable membrane protein YAL067c - yeast (Saccharomyces cerevisiae) ; (U12980) Scd1p: putative membrane protein [Saccharomyces cerevisiae]
23979	ENU07773	ANI61C3047: 23-50 1105..347	592-611	LINAP			g2801701	405	106	1.00E-22	36	22	(AF042379) spindle pole body protein spc97 homolog GCP2 [Homo sapiens] "
23980	ENU07774	ANI61C3850: 117-136 1..334	282-303	LINAP			g4098647	159	85	2.00E-16	43	24	(U80668) homogentisate 1,2-dioxygenase [Arabidopsis thaliana] "
23981	ENU07775	ANI61C311:1 380..679		LINAP			g3540219	705	217	8.00E-56	51	19	(D87686) KIAA0017 protein [Homo sapiens]
23982	ENU07776	ANI61C7345: 61-84 1..597	549-576	LINAP			g2495720	173	69	6.00E-20	35	20	hypothetical protein KIAA0210 ; (D86965) similar to a putative protein coded in Caenorhabditis elegans cosmid B0393. [Homo sapiens]
23983	ENU07777	ANI61C6723: 1583..570		LINAP			g1077415	529	239	2.00E-62	40	31	hypothetical protein YLR357w - yeast (Saccharomyces cerevisiae) ; (U19102) Ylr357wp [Saccharomyces cerevisiae]
23984	ENU07778	ANI61C1952: 43-62 1269..2376	811-829	LINAP			g3915187	902	170	9.00E-49	40	14	probable N-end-recognizing protein (ubiquitin-protein ligase E3 component) (N- recognin) ; (AL023859) putative ubiquitin protein ligase [Schizosaccharomyces pombe]
23985	ENU07779	ANI61C9727: 22-46 4681..5583	724-749	LINAP			g3023260	426	115	6.00E-48	48	23	alpha-glucosidase precursor (maltase) ; (D86624) alpha-glucosidase precursor [Spinacia oleracea]
23986	ENU07780	ANI61C7285: 25-48 3265..3862	363-383	LINAP			g116149	297	139	2.00E-32	47	63	G1/S-specific cyclin PCL1 (cyclin HCS26) ; cyclin G1 homolog HCS26 - yeast (Saccharomyces cerevisiae) ; (M73966) G1 cyclin [Saccharomyces cerevisiae] ; (Z71565) ORF YNL289w [Saccharomyces cerevisiae]
23987	ENU07781	ANI61C298:5 891..4773	784-803	LINAP			g2507070	182	65	7.00E-10	31	50	N amino acid transport system protein (methyltryptophan resistance protein) ; neutral amino acid permease - Neurospora crassa ; (L34605) neutral amino acid permease [Neurospora crassa]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
23988	ENU07782	ANI61C3844: 379..1042	57-76	620-643	LINAP		g1363740	157	76	2.00E-13	36	81	probable membrane protein YLR251w - yeast (Saccharomyces cerevisiae) ; (U20865) Ylr251wp [Saccharomyces cerevisiae]
23989	ENU07783	ANI61C9748: 23-42	513-540	LINAP			g3874557	356	166	1.00E-40	45	25	(Z81041) predicted using Genefinder; Similarity to E.coli L-asparaginase (SW:P18840); cDNA EST EMBL:D34586 comes from this gene; cDNA EST EMBL:D35768 comes from this gene; cDNA EST EMBL:D64950 comes from this gene; cDNA EST EMB...
23990	ENU07784	ANI61C6697: 42-61	799-825	LINAP			g671684	1353	200	1.00E-50	40	32	(U20346) H antigen precursor [Ajellomyces capsulatus]
23991	ENU07785	ANI61C2019: 22-45	443-469	LINAP			g2660584	111	39	0.021			(Y11823) colicin U [Shigella boydii]
23992	ENU07786	ANI61C298:7 839..8331	23-50	440-467	LINAP		g118239	117	52	0.000004	35	53	"dihydrodipicolinate synthase (DHPS) ; (X53993) L-2,3-dihydrodipicolinate synthetase [Corynebacterium glutamicum] "
23993	ENU07787	ANI61C9755: 40-59	637-656	LINAP			g550095	296	145	2.00E-34	43	18	(D38310) Boi2p [Saccharomyces cerevisiae]
23994	ENU07788	ANI61C3107: 22-42	621-643	LINAP			g4490979	136	83	2.00E-15			(AL035707) CDA peptide synthetase III [Streptomyces coelicolor]
23995	ENU07789	ANI61C6711: 30-54	709-730	LINAP			g2739028	115	57	0.000000			(AF023919) PK-120 precursor [Mus musculus]
23996	ENU07790	ANI61C9731: 38-58	436-455	LINAP			g114866	55	57	0.000000	33	49	Magnesium-chelatae 30 KD subunit ; bchO protein - Rhodobacter capsulatus ; (Z11165) 284 aa (30 kD) Mg chelatae subunit [Rhodobacter capsulatus]
23997	ENU07791	ANI61C2060: 28-50	508-535	LINAP			g2408014	186	106	1.00E-22	33	41	(Z99162) hypothetical protein [Schizosaccharomyces pombe]
23998	ENU07792	ANI61C3860: 47-66	789-808	LINAP			g2147662	987	145	3.00E-34	36	12	melanin biosynthetic polyketide synthase PKS1 - Colletotrichum lagenarium ; (D83643) polyketide synthase [Colletotrichum lagenarium]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24008	ENU07802	ANI61C2070: 1017..451			LINAP		g123338	414	63	1.00E-18			3-hydroxy-3-methylglutaryl-coenzyme A reductase 2 (HMG-CoA reductase 2) ; hydroxymethylglutaryl-CoA reductase (EC 1.1.1.88) II - yeast (Saccharomyces cerevisiae) ; (M22255) 3-hydroxy-3-methyl glutaryl coenzyme A reductase [Saccharomyces cerevisiae] ; (U22382) Hmg2p: 3-hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) reductase [Saccharomyces cerevisiae]
24009	ENU07803	ANI61C31:35 29..48 29..2201	29-48	796-815	LINAP		g3378265	502	164	9.00E-40	34	63	(AF079317) unknown [Sphingomonas aromaticivorans]
24010	ENU07804	ANI61C3888: 29-52 479..12	29-52	453-479	LINAP		g1730527	110	49	0.000000 001	35	34	geranylgeranyl transferase type I beta subunit (type I protein geranyl-geranyltransferase beta subunit) (GGTASE-I-beta) ; geranylgeranyl-diphosphate geranylgeranyltransferase (EC 2.5.1.32) I beta chain - rat ; (L24116) geranylgeranyltransferase type I [Rattus norvegicus]
24011	ENU07805	ANI61C7983: 25-52 584..1	25-52	526-552	LINAP		g3913983	340	116	5.00E-36	53	34	probable kynureninase (L-kynurenine hydrolase) ; (U56965) similar to R. norvegicus kynureninase (PIR:PS0370) [Caenorhabditis elegans]
24012	ENU07806	ANI61C7368: 39-66 1492..1	39-66	699-726	LINAP		g3647341	615	92	8.00E-21	43	22	(AL031644) RAD16 nucleotide excision repair protein homolog [Schizosaccharomyces pombe]
24013	ENU07807	ANI61C2088: 53-72 226..1027	53-72	757-781	LINAP		g3668152	142	113	1.00E-24			(AL031764) putative helicase [Schizosaccharomyces pombe]
24014	ENU07808	ANI61C3109: 206-233 384..1066	206-233	633-660	LINAP		g2131257	249	120	1.00E-26	39	47	fumarate reductase (NADH) (EC 1.3.1.6) - yeast (Saccharomyces cerevisiae)
24015	ENU07809	ANI61C3867: 32-51 1045..1509	32-51	455-479	LINAP		g1296845	68	48	0.00005			(X97581) spalt protein [Mus musculus]
24016	ENU07810	ANI61C6714: 22-46 572..872	22-46	459-479	LINAP		g731704	84	46	0.0002	41	42	hypothetical 17.3 KD protein in ERP5-ORC6 intergenic region ; hypothetical protein YHR116w - yeast (Saccharomyces cerevisiae) ; (U00059) Yhr116wp [Saccharomyces cerevisiae]

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24017	ENU07811	ANI61C2045: 660..1	22-40	532-559	LINAP		g115689	472	96	5.00E-47	58	55	nuclear protein SNF4 (regulatory protein CAT3) ; CAT3 protein - yeast (Saccharomyces cerevisiae) ; (M21760) regulatory protein CAT3 [Saccharomyces cerevisiae] ; (M30470) SNF4 protein [Saccharomyces cerevisiae] ; (Z72637) ORF YGL115w [Saccharomyces cerevisiae] "(AL031852) valyl-trna synthetase, mitochondrial precursor [Schizosaccharomyces pombe] ; (AL031856) valyl-trna synthetase, mitochondrial precursor [Schizosaccharomyces pombe] " probable sterigmatocystin biosynthesis P450 monooxygenase STCB (cytochrome P450 62) ; (U34740) putative p450 monooxygenase [Emicella nidulans] (AF013216) unknown [Myxococcus xanthus] hypothetical 65.3 KD protein in SUN4-MASS intergenic region ; probable membrane protein YNL065w - yeast (Saccharomyces cerevisiae) ; (U12141) membrane protein [Saccharomyces cerevisiae] ; (Z71341) ORF YNL065w [Saccharomyces cerevisiae] cytochrome B5 (AF069765) signal recognition particle 72 [Homo sapiens] ; (AF077019) signal recognition particle 72 [Homo sapiens] probable sucrose utilization protein SUC1 (AB003395) ent-Kaurene synthase [Phaeosphaeria sp. L487]
24018	ENU07812	ANI61C3092: 4451..5044	26-53	438-461	LINAP		g3738140	516	219	1.00E-56	56	20	
24019	ENU07813	ANI61C9741: 5356..6142			LINAP		g2493391	209	70	2.00E-11	32	26	
24020	ENU07814	ANI61C6714: 6661..7031	23-42	423-450	LINAP		g2384693	100	31	4.6			
24021	ENU07815	ANI61C2101: 670..1			LINAP		g1730741	143	61	3.00E-12	25	38	
24022	ENU07816	ANI61C3893: 1669..1973	45-64	450-477	LINAP		g117808	158	81	6.00E-15	48	55	
24023	ENU07817	ANI61C9739: 4457..2354	28-54	800-819	LINAP		g3243033	251	83	3.00E-15	27	40	
24024	ENU07818	ANI61C7925: 4042..3499			LINAP		g1174472	126	66	1.00E-10	29	35	
24025	ENU07819	ANI61C6769: 1062..258	22-46	728-754	LINAP		g2443355	207	76	2.00E-13	37	26	

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24026	ENU07820	ANI61C2111: 316..685			LINAP		g4038642	265	87	3.00E-20	54	29	(D87063) chitinase [Emericella nidulans]
24027	ENU07821	ANI61C3136: 211-238 328..713	455-479		LINAP		g2239197	137	80	8.00E-15	32	76	(Z97209) ureidoglycolate hydrolase [Schizosaccharomyces pombe]
24028	ENU07822	ANI61C9770: 37-57 3123..3644	468-495		LINAP		g1730641	159	146	1.00E-34	48	26	hypothetical 65.0 KD protein in MET2-SEC2 intergenic region ; probable membrane protein YNL275w - yeast (Saccharomyces cerevisiae) ; (Z71551) ORF YNL275w [Saccharomyces cerevisiae]
24029	ENU07823	ANI61C7336: 52-71 1..3069	807-829		LINAP		g119830	2976	299	1.00E-80	52	15	"fatty acid synthase, subunit alpha [contains: EC 1.1.1.100; EC 2.3.1.41] ; fatty-acid synthase (EC 2.3.1.85) - Penicillium griseofulvum ; (M37461) FAS2 protein [Penicillium patulum] " (AC003952) putative histidine kinase [Arabidopsis thaliana] (AF016696) peptide synthetase module [Streptomyces fradiae]
24030	ENU07824	ANI61C2130: 22-43 581..97	420-439		LINAP		g2708752	74	60	0.000000			DNA polymerase alpha/PRIMASE associated subunit (P86 subunit) ; probable membrane protein YBL035c - yeast (Saccharomyces cerevisiae) ; (X74738) ORF YBL0415 [Saccharomyces cerevisiae] ; (Z35796) ORF YBL035c [Saccharomyces cerevisiae] ; ORF YBL0415 [Saccharomyces cerevisiae]
24031	ENU07825	ANI61C3134: 101-127 2089..1338	706-731		LINAP		g2738765	82	102	2.00E-21			hypothetical 50.2 KD protein in CPT1-SPC98 intergenic region ; probable tyrosine phosphatase YNL128w - yeast (Saccharomyces cerevisiae) ; (Z46843) tyrosine phosphatase (putative) [Saccharomyces cerevisiae] ; (Z71404) ORF YNL128w [Saccharomyces cerevisiae]
24032	ENU07826	ANI61C9760: 22-42 741..1	618-639		LINAP		g585063	415	150	1.00E-35	39	34	
24033	ENU07827	ANI61C6776: 35-54 1436..1979	472-494		LINAP		g1730775	98	42	0.000000	35	32	
24034	ENU07828	ANI61C3146: 24-42 1603..2092	264-283		LINAP		g3559814	312	118	2.00E-26	58	16	transketolase 1 [Capsicum annuum]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24047	ENU07842	ANI61C1027 3:250..1270			GTBX	"AFUc01302, AFUc18982, FGRc04116"				"1.6e-111, 6.2e-14, 1.2e-30"			
24048	ENU07843	ANI61C1027 4:2845..3490			GTBX	"AFUc05575, AFUc07542"				"4.3e-09, 9.4e-21"			
24049	ENU07844	ANI61C1027 5:2551..4131			GTBX	"AFUc01701, AFUc09710, AFUc09710, AFUc12211, AFUc20787, AFUc21939, Z71256"				"7.0e-23, 3.3e-23, 3.9e-14, 3.9e-24, 1.9e-13, 3.3e-25, 2.7e-07" 3.9E-33			
24050	ENU07845	ANI61C1027 9:79..1101			GTBX	FGRc22675							
24051	ENU07846	ANI61C1481: 592..54			GTBX	"AFUc10211, AFUc15427"				"4.2e-36, 6.7e-28"			
24052	ENU07847	ANI61C1487: 963..1571			GTBX	"AFUc04386, CALc02388"				"3.3e-81, 1.6e-08"			
24053	ENU07848	ANI61C1489: 487..281			GTBX	AFUc14845				8.1E-30			
24054	ENU07849	ANI61C1028 0:1900..466			GTBX	"AFUc01505, AFUc06388, FGRc05792, FGRc08715, FGRc10632"				"7.8e-46, 1.3e-45, 1.0e-20, 3.2e-18, 9.6e-14" 1.3E-129			
24055	ENU07850	ANI61C1028 2:1207..1860			GTBX	AFUc14473							
24056	ENU07851	ANI61C1028 5:548..831			GTBX	"CALc03391, Y13137"				"9.0e-29, 6.1e-39"			
24057	ENU07852	ANI61C1028 7:1684..2097			GTBX	U00092				6.0e-55			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24058	ENU07853	ANI61C1493:117..1265			GTBX	"AFUc19753, FGRC23159"				"2.0e-25, 7.6e-27"			
24059	ENU07854	ANI61C1495:294..538			GTBX	U00094				1.6e-51			
24060	ENU07855	ANI61C1496:741..115			GTBX	AFUc03226				1.3E-38			
24061	ENU07856	ANI61C320:251..612			GTBX	AFUc12957				1.1E-40			
24062	ENU07857	ANI61C321:7229..6601			GTBX	AFUc21833				5E-31			
24063	ENU07858	ANI61C322:3260..3635			GTBX	"AFUc20332, FGRC09045"				"4.5e-25, 5.0e-15"			
24064	ENU07859	ANI61C327:400..34			GTBX	FGRC11552				3E-22			
24065	ENU07860	ANI61C10296:2669..18			GTBX	"AFUc15183, CALc05935"				"1.6e-85, 5.4e-262"			
24066	ENU07861	ANI61C10296:11566..12246			GTBX	AFUc15911				7E-93			
24067	ENU07862	ANI61C10297:23..1444			GTBX	AFUc15769				9.4E-113			
24068	ENU07863	ANI61C10299:1537..3212			GTBX	"AFUc21263, FGRC09112"				"3.8e-55, 6.6e-63"			
24069	ENU07864	ANI61C10299:4892..3860			GTBX	AFUc12138				5.7E-25			
24070	ENU07865	ANI61C10299:5928..6774			GTBX	AFUc03113				5.7E-64			
24071	ENU07866	ANI61C1:30..683			GTBX	AFUc09360				4.1E-27			

blast - comparison

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24072	ENU07867	ANI61C1:104 7..769			GTBX	AFUc18004				7.5E-30			
24073	ENU07868	ANI61C2:458 ..5			GTBX	"AFUc04176, FGRc07928"				"3.7e-38, 1.7e-22"			
24074	ENU07869	ANI61C330:2 112..1395			GTBX	AFUc02133				2.9E-65			
24075	ENU07870	ANI61C333:6 49..911			GTBX	AFUc06176				7.7E-23			
24076	ENU07871	ANI61C340:9 66..691			GTBX	AFUc04374				1.7E-27			
24077	ENU07872	ANI61C343:6 76..13			GTBX	AFUc12179				7E-45			
24078	ENU07873	ANI61C345:2 853..1498			GTBX	AFUc12264				1.2E-94			
24079	ENU07874	ANI61C352:1 1341..11766			GTBX	"AFUc12377, X59720"				"1.8e-70, 2.1e-12"			
24080	ENU07875	ANI61C352:1 2904..12374			GTBX	AFUc12377				2E-59			
24081	ENU07876	ANI61C362:1 70..1977			GTBX	"AFUc12101, AFUc14601, FGRc23569"				"6.3e- 111, 9.1e-18, 2.5e-38"			
24082	ENU07877	ANI61C7202: 1145..858			GTBX	"AFUc05840, AFUc05840, CALc06220"				"4.0e-26, 7.6e-12, 2.2e-58"			
24083	ENU07878	ANI61C7204: 1288..1623			GTBX	AFUc14370				7.4E-25			
24084	ENU07879	ANI61C373:4 8..451			GTBX	AFUc17629				5.7E-30			
24085	ENU07880	ANI61C379:4 01..66			GTBX	Y13135				3.8e-21			

Sequence Alignment

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24086	ENU07881	ANI61C379:4 245..5557			GTBX	"AFUc04762, FGRc21465"				"7.2e-41, 2.0e-37"			
24087	ENU07882	ANI61C379:7 058..6858			GTBX	AFUc15378				1.4E-23			
24088	ENU07883	ANI61C382:1 430..510			GTBX	"AFUc10214, AFUc13687"				"1.0e-56, 4.9e-33"			
24089	ENU07884	ANI61C383:3 030..3578			GTBX	AFUc06191				1.1E-56			
24090	ENU07885	ANI61C7223: 6059..5046			GTBX	"CALc05044, FGRc18203"				"2.8e-67, 1.6e-41"			
24091	ENU07886	ANI61C395:1 29..502			GTBX	FGRc01389				7.2E-34			
24092	ENU07887	ANI61C7231: 571..130			GTBX	AFUc06018				5.9E-32			
24093	ENU07888	ANI61C7232: 1188..2754			GTBX	"AFUc15564, AFUc20293"				"2.5e-99, 1.8e-34"			
24094	ENU07889	ANI61C7232: 6257..6705			GTBX	AFUc02538				1E-33			
24095	ENU07890	ANI61C6504: 15..1182			GTBX	AFUc12291				3.4E-21			
24096	ENU07891	ANI61C7234: 1359..273			GTBX	"AFUc07075, AFUc15048"				"2.8e-85, 4.2e-17"			
24097	ENU07892	ANI61C7236: 3414..1523			GTBX	"AFUc04239, AFUc09737"				"7.5e- 119, 1.4e-36"			
24098	ENU07893	ANI61C7242: 1515..1201			GTBX	FGRc19758				1.1E-23			
24099	ENU07894	ANI61C6518: 848..1501			GTBX	AFUc09603				1.7E-54			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24113	ENU07908	ANI61C5810: 819..47			GTBX	"AFUc08467, CALc05923"				"4.4e-09, 8.3e-56"			
24114	ENU07909	ANI61C6540: 3119..3417			GTBX	AFUc08906				9E-44			
24115	ENU07910	ANI61C5813: 460..1074			GTBX	AFUc12201				7.9E-95			
24116	ENU07911	ANI61C7273: 960..2083			GTBX	AFUc10281				1.1E-47			
24117	ENU07912	ANI61C7274: 1136..206			GTBX	AFUc03210				2.9E-57			
24118	ENU07913	ANI61C7276: 3527..4341			GTBX	"AFUc01802, FGRc10582"				"1.6e-22, 1.3e-15"			
24119	ENU07914	ANI61S207:5 43..121			GTBX	AFUc07853				3.8E-25			
24120	ENU07915	ANI61C7280: 335..1938			GTBX	"FGRc08244, FGRc16187"				"1.3e-71, 2.0e-46"			
24121	ENU07916	ANI61C6552: 3134..4669			GTBX	"AFUc13978, AFUc16716, AFUc19617, FGRc15557"				"1.1e-31, 1.4e-29, 2.0e-44, 6.2e-18" 5.8E-30			
24122	ENU07917	ANI61C6553: 3869..4420			GTBX	AFUc11116							
24123	ENU07918	ANI61C6556: 441..97			GTBX	AFUc13317				1.2E-36			
24124	ENU07919	ANI61C7285: 916..1315			GTBX	FGRc02595				1.9E-36			
24125	ENU07920	ANI61C7285: 7900..8248			GTBX	AFUc15172				4.4E-69			
24126	ENU07921	ANI61C5829: 736..359			GTBX	AFUc08971				4.2E-34			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24127	ENU07922	ANI61S219:4 84..9			GTBX	AFUc08358				1.5E-60			
24128	ENU07923	ANI61C5831: 903..18			GTBX	AFUc14499				6.3E-77			
24129	ENU07924	ANI61C7290: 909..336			GTBX	Y13134				3.0e-28			
24130	ENU07925	ANI61C6562: 1020..89			GTBX	"AFUc01328, AFUc04061"				"6.1e-55, 3.1e-53"			
24131	ENU07926	ANI61C5834: 536..1960			GTBX	CALc03151				8.9E-171			
24132	ENU07927	ANI61C5835: 1327..116			GTBX	"AFUc02187, AFUc12580, AFUc16794"				"1.4e-14, 1.9e-07, 4.2e-61"			
24133	ENU07928	ANI61C6564: 16..965			GTBX	"AFUc16593, FGRc03157"				"4.2e-43, 1.2e-11"			
24134	ENU07929	ANI61C5836: 693..5			GTBX	"CALc04906, FGRc04099"				"2.4e-48, 8.5e-59"			
24135	ENU07930	ANI61C5837: 3117..648			GTBX	AFUc14040				8.4E-26			
24136	ENU07931	ANI61C7298: 592..8			GTBX	CALc06027				3E-39			
24137	ENU07932	ANI61C6570: 951..739			GTBX	CALc06157				1.4E-65			
24138	ENU07933	ANI61C6579: 931..141			GTBX	"AFUc02825, AFUc16044"				"9.5e-21, 9.7e-09"			
24139	ENU07934	ANI61C5852: 88..835			GTBX	CALc05688				3.7E-57			
24140	ENU07935	ANI61C5852: 2281..1223			GTBX	"AFUc07544, AFUc08833"				"7.4e-09, 2.7e-29"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24141	ENU07936	ANI61C5853:1007..1811			GTBX	"AFUc10318, AFUc15156"				"4.9e-73, 1.7e-72"			
24142	ENU07937	ANI61C6585:892..1140			GTBX	"AFUc05311, AFUc05311"				"1.7e-47, 1.7e-73"			
24143	ENU07938	ANI61C6588:1804..14			GTBX	"AFUc08190, AFUc11152, AFUc15526, FGRc05298"				"1.2e-09, 2.1e-62, 3.6e-10, 1.1e-08"			
24144	ENU07939	ANI61C5865:538..89			GTBX	FGRc10441				1.7E-47			
24145	ENU07940	ANI61C6598:1573..2608			GTBX	"AFUc01830, FGRc04488"				"2.3e-50, 9.2e-32"			
24146	ENU07941	ANI61S8:287..42			GTBX	AFUc04879				2.1E-32			
24147	ENU07942	ANI61C5885:361..1250			GTBX	AFUc15363				3.4E-94			
24148	ENU07943	ANI61C5886:756..40			GTBX	AFUc19850				9.8E-58			
24149	ENU07944	ANI61C5888:643..1866			GTBX	FGRc11984				1.5E-95			
24150	ENU07945	ANI61S2026:43..360			GTBX	AFUc10511				2.8E-36			
24151	ENU07946	ANI61S1309:546..16			GTBX	AFUc06122				3.2E-88			
24152	ENU07947	ANI61C2202:737..1023			GTBX	"AFUc10677, Y13136"				"1.8e-20, 3.0e-102"			
24153	ENU07948	ANI61C2209:1288..64			GTBX	"AFUc17374, AFUc20460"				"1.1e-59, 9.1e-31"			
24154	ENU07949	ANI61C1100:0:8262..9041			GTBX	AFUc14297				3.3E-45			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
24155	ENU07950	ANI61C1100 4:1954..1302			GTBX	AFUc14982				1E-161			
24156	ENU07951	ANI61C2214: 1695..1099			GTBX	AFUc10709				1.3E-47			
24157	ENU07952	ANI61C2216: 54..1022			GTBX	Z71256				9.0e-15			
24158	ENU07953	ANI61C1101 0:1243..2169			GTBX	"AFUc14408, FGRc07288"				"4.0e-33, 2.4e-38"			
24159	ENU07954	ANI61C2220: 29..773			GTBX	AFUc02313				8.5E-22			
24160	ENU07955	ANI61C1102 3:79..1083			GTBX	"AFUc06153, AFUc21355, FGRc08305"				"3.7e-61, 9.8e-54, 4.2e-07"			
24161	ENU07956	ANI61C2235: 1966..1466			GTBX	AFUc06983				6.5E-57			
24162	ENU07957	ANI61C1103 0:300..2243			GTBX	"AFUc15517, AFUc20784, FGRc15017"				"2.6e-20, 4.8e-15, 3.1e-29"			
24163	ENU07958	ANI61C1103 0:8409..9713			GTBX	"AFUc06388, FGRc05792"				"1.0e-22, 8.0e-25"			
24164	ENU07959	ANI61C1103 1:1655..2023			GTBX	AFUc13932				2.9E-51			
24165	ENU07960	ANI61C1103 2:497..48			GTBX	AFUc11402				2.7E-50			
24166	ENU07961	ANI61C1030 4:273..800			GTBX	AFUc15094				5.6E-72			
24167	ENU07962	ANI61C1030 6:613..14			GTBX	AFUc13032				4.4E-37			
24168	ENU07963	ANI61C1103 7:5775..6531			GTBX	AFUc07195				7E-57			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24169	ENU07964	ANI61C1103 8:14225..12770			GTBX	"AFUc09489, FGRc09616"				"9.0e-26, 3.6e-17"			
24170	ENU07965	ANI61S1346: 92..435			GTBX	AFUc02348				1.4E-44			
24171	ENU07966	ANI61C1511: 378..1139			GTBX	U00094				5.2e-38			
24172	ENU07967	ANI61C2242: 2406..1912			GTBX	AFUc03452				8.1E-49			
24173	ENU07968	ANI61C1514: 220..815			GTBX	AFUc15554				1.7E-79			
24174	ENU07969	ANI61C1518: 1333..817			GTBX	"AFUc13493, FGRc25564"				"6.5e-23, 4.9e-25"			
24175	ENU07970	ANI61C2249: 68..817			GTBX	AFUc08878				3.5E-79			
24176	ENU07971	ANI61C1031 0:1335..71			GTBX	AFUc09721				3.6E-27			
24177	ENU07972	ANI61C1104 0:2002..2735			GTBX	AFUc09896				3.5E-52			
24178	ENU07973	ANI61C1104 1:851..1973			GTBX	AFUc10517				2.5E-94			
24179	ENU07974	ANI61C1031 3:385..29			GTBX	FGRc07645				1.9E-21			
24180	ENU07975	ANI61C1104 5:39..677			GTBX	U00094				6.2e-38			
24181	ENU07976	ANI61C1104 6:529..740			GTBX	AFUc10641				6.5E-39			
24182	ENU07977	ANI61C1521: 3457..2237			GTBX	AFUc12939				2.7E-101			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr	% cvrg	Description
24183	ENU07978	ANI61C1525: 1163..813			GTBX	FGRc04252				2.1E-23				
24184	ENU07979	ANI61C2256: 1738..606			GTBX	"AFUc03478, AFUc06959, FGRc11102"				"5.3e-61, 1.4e-13, 1.6e-68"				
24185	ENU07980	ANI61C1032 4:1456..2640			GTBX	AFUc06432				5.6E-40				
24186	ENU07981	ANI61C1032 4:6683..7378			GTBX	AFUc03858				1.8E-26				
24187	ENU07982	ANI61C1105 7:854..3			GTBX	AFUc15404				1.2E-104				
24188	ENU07983	ANI61C1105 8:1235..3139			GTBX	"AFUc10292, CALc04898"				"1.7e-140, 3.7e-15"				
24189	ENU07984	ANI61C2264: 819..487			GTBX	AFUc14213				4.3E-22				
24190	ENU07985	ANI61C2266: 678..1117			GTBX	AFUc09002				2.9E-60				
24191	ENU07986	ANI61C1538: 1527..2143			GTBX	FGRc13890				2.3E-55				
24192	ENU07987	ANI61C1106 5:1308..25			GTBX	"AFUc01902, CALc06224"				"2.0e-49, 2.4e-36"				
24193	ENU07988	ANI61C1033 8:1068..1298			GTBX	AFUc15802				5.7E-81				
24194	ENU07989	ANI61C2274: 104..352			GTBX	FGRc17081				5.7E-24				
24195	ENU07990	ANI61C2279: 947..35			GTBX	AFUc12999				3.7E-57				
24196	ENU07991	ANI61C1107 3:10825..9952			GTBX	AFUc08864				1.6E-40				

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24197	ENU07992	ANI61C1034 6:148..474			GTBX	AFUc15190				5.2E-32			
24198	ENU07993	ANI61C1107 6:735..40			GTBX	FGRc11607				9.9E-62			
24199	ENU07994	ANI61C2280: 1521..418			GTBX	"AFUc22243, Z71256"				"1.1e-80, 3.3e-65"			
24200	ENU07995	ANI61C1554: 1454..495			GTBX	"AFUc15791, CALc05767"				"1.1e-89, 9.6e-28"			
24201	ENU07996	ANI61C1556: 505..2120			GTBX	"FGRc16102, U00091"				"3.0e-18, 6.1e-13"			
24202	ENU07997	ANI61C1557: 8377..8816			GTBX	"AFUc10195, Y13137"				"2.6e-29, 3.3e-19"			
24203	ENU07998	ANI61C2286: 63..469			GTBX	AFUc19350				1.8E-29			
24204	ENU07999	ANI61C2287: 3657..2752			GTBX	AFUc21287				1.7E-22			
24205	ENU08000	ANI61C1558: 241..1075			GTBX	AFUc07571				1.8E-111			
24206	ENU08001	ANI61C1108 2:2..355			GTBX	AFUc11431				7.8E-49			
24207	ENU08002	ANI61S1390: 27..413			GTBX	AFUc00871				4.2E-54			
24208	ENU08003	ANI61C1035 4:586..266			GTBX	AFUc14370				1E-38			
24209	ENU08004	ANI61C1561: 633..1091			GTBX	"FGRc12428, FGRc23250"				"6.2e-17, 1.3e-26"			
24210	ENU08005	ANI61C1563: 759..984			GTBX	AFUc12486				1.4E-59			

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24211	ENU08006	ANI61C1564:425..1061			GTBX	"AFUc03100, AFUc08293"				"1.6e-71, 1.0e-71"			
24212	ENU08007	ANI61C1566:1921..1217			GTBX	AFUc06344				1.5E-31			
24213	ENU08008	ANI61C10362:706..1638			GTBX	AFUc05986				2.1E-64			
24214	ENU08009	ANI61C10363:84..749			GTBX	AFUc14403				5.9E-76			
24215	ENU08010	ANI61C11093:666..283			GTBX	AFUc02155				7.1E-43			
24216	ENU08011	ANI61C11098:5774..6408			GTBX	"AFUc02174, AFUc07223"				"3.6e-30, 1.4e-64"			
24217	ENU08012	ANI61C1571:1373..765			GTBX	AFUc09738				2.6E-96			
24218	ENU08013	ANI61C1572:1..528			GTBX	AFUc12035				6.1E-42			
24219	ENU08014	ANI61C1575:538..1212			GTBX	AFUc17343				5.4E-29			
24220	ENU08015	ANI61C404:2381..3391			GTBX	AFUc10663				1.6E-86			
24221	ENU08016	ANI61C404:5543..4664			GTBX	AFUc05891				3.5E-65			
24222	ENU08017	ANI61C409:1650..41			GTBX	"AFUc07919, AFUc13887, AFUc14801, AFUc20578"				"3.7e-46, 4.4e-36, 1.0e-15, 2.9e-59"			
24223	ENU08018	ANI61C1580:532..1125			GTBX	AFUc13632				1.9E-52			
24224	ENU08019	ANI61C1582:909..3			GTBX	Z71257				2.9E-22			

Accession

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24225	ENU08020	ANI61C1586:787..1352			GTBX	AFUc13343				3.2E-39			
24226	ENU08021	ANI61C1038 0:3189..3954			GTBX	AFUc16966				4.2E-32			
24227	ENU08022	ANI61C419:2 8..469			GTBX	FGRc26357				1.1E-49			
24228	ENU08023	ANI61C1038 4:682..2			GTBX	AFUc15000				8.7E-94			
24229	ENU08024	ANI61C1038 6:428..6			GTBX	AFUc14146				1.9E-37			
24230	ENU08025	ANI61C1038 7:3270..4847			GTBX	"AFUc04379, AFUc12739"				"1.9e-45, 5.7e-53"			
24231	ENU08026	ANI61C1598: 479..11			GTBX	AFUc16619				4.3E-35			
24232	ENU08027	ANI61C1039 7:1214..133			GTBX	"AFUc06152, AFUc17696, CALc05205"				"1.1e-28, 2.2e-12, 1.3e-46"			
24233	ENU08028	ANI61C438:2 608..906			GTBX	"AFUc07197, AFUc11134, AFUc11728, AFUc12186"				"5.1e-14, 1.1e-15, 1.4e-14, 1.3e-105"			
24234	ENU08029	ANI61C439:9 124..9705			GTBX	AFUc01048				6E-60			
24235	ENU08030	ANI61C8000: 994..2			GTBX	"AFUc02858, U00092"				"2.8e-11, 6.6e-93"			
24236	ENU08031	ANI61C8004: 608..3			GTBX	AFUc19180				8.2E-24			
24237	ENU08032	ANI61C8006: 514..1077			GTBX	AFUc13623				5.3E-40			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24238	ENU08033	ANI61C440:3446..3919			GTBX	AFUc17537				3.9E-64			
24239	ENU08034	ANI61C442:556..131			GTBX	AFUc21017				6.4E-22			
24240	ENU08035	ANI61C445:716..1232			GTBX	GY13139				5.9e-57			
24241	ENU08036	ANI61C449:266..1975			GTBX	AFUc15617				1.4E-206			
24242	ENU08037	ANI61C8012:1970..190			GTBX	AFUc15379				5.1E-111			
24243	ENU08038	ANI61C8013:1851..3360			GTBX	"AFUc07084, AFUc22432, CALc06078, Y13135"				"4.8e-66, 2.1e-41, 1.1e-54, 5.7e-37" 2.5E-36			
24244	ENU08039	ANI61C8020:5..382			GTBX	AFUc13797				6.6E-63			
24245	ENU08040	ANI61C8021:3545..2350			GTBX	AFUc13604							
24246	ENU08041	ANI61C8026:38..1772			GTBX	"AFUc15772, AFUc21150, FGRC16885"				"4.9e-143, 2.0e-13, 2.5e-11" 1.3E-47			
24247	ENU08042	ANI61C8029:16..570			GTBX	AFUc21824				1.6E-38			
24248	ENU08043	ANI61C467:5371..6057			GTBX	AFUc04398				2.7E-59			
24249	ENU08044	ANI61C8031:823..117			GTBX	AFUc11877				4.1E-24			
24250	ENU08045	ANI61C7308:36..415			GTBX	AFUc00888							

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
24251	ENU08046	ANI61C477:6 30..1			GTBX	AFUc15892				1.5E-52			
24252	ENU08047	ANI61C7311: 163..582			GTBX	"AFUc04986, AFUc09264"				"5.4e-16, 5.2e-55"			
24253	ENU08048	ANI61C8044: 326..1058			GTBX	AFUc14880				5E-46			
24254	ENU08049	ANI61C7315: 1841..3604			GTBX	"AFUc12313, AFUc19899"				"2.1e-43, 2.9e-37"			
24255	ENU08050	ANI61C7317: 1666..56			GTBX	"AFUc11411, CALc06214, Y13135"				"8.6e- 115, 1.2e-67, 1.3e-42"			
24256	ENU08051	ANI61C8047: 5242..4733			GTBX	AFUc15695				5.4E-21			
24257	ENU08052	ANI61C7318: 655..1047			GTBX	"AFUc18123, Y13139"				"6.8e-21, 1.2e-09"			
24258	ENU08053	ANI61C489:4 57..3			GTBX	AFUc13648				1.9E-80			
24259	ENU08054	ANI61C8051: 1747..518			GTBX	"CALc04459, CALc04459"				"1.4e-61, 3.0e-62"			
24260	ENU08055	ANI61C7323: 785..241			GTBX	AFUc19691				7E-56			
24261	ENU08056	ANI61C8052: 733..2502			GTBX	"AFUc00069, AFUc16115, CALc04031"				"2.8e-71, 6.0e-34, 7.0e-55"			
24262	ENU08057	ANI61C8053: 610..182			GTBX	AFUc10161				1.7E-21			
24263	ENU08058	ANI61C8055: 2135..174			GTBX	"AFUc11740, AFUc12687, AFUc14731, FGRc23552"				"5.7e-57, 4.0e-21, 5.0e-19, 6.6e-14"			

Sequence Comparison

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24264	ENU08059	ANI61C8057: 52..420			GTBX	AFUc08475				2E-49			
24265	ENU08060	ANI61C7329: 594..1704			GTBX	"AFUc01746, AFUc02096"				"1.2e-27, 3.5e-52"			
24266	ENU08061	ANI61C492:5 7..884			GTBX	AFUc13259				3.6E-135			
24267	ENU08062	ANI61C499:1 160..732			GTBX	AFUc09357				1.1E-68			
24268	ENU08063	ANI61C7330: 143..2372			GTBX	"AFUc13887, AFUc14801, FGRc09062, FGRc10889, FGRc21319"				"2.5e-43, 1.3e-13, 1.6e-45, 5.2e-99, 1.5e-10"			
24269	ENU08064	ANI61C7330: 3367..4124			GTBX	"AFUc05528, FGRc11979"				"6.7e-27, 3.8e-13"			
24270	ENU08065	ANI61C7331: 4011..2258			GTBX	"AFUc03996, AFUc06614, AFUc15699, AFUc15879"				"1.6e-21, 3.9e-15, 3.4e-19, 1.6e-43"			
24271	ENU08066	ANI61C6607: 1409..2016			GTBX	"AFUc10110, AFUc19217"				"5.5e-22, 1.4e-48"			
24272	ENU08067	ANI61C8066: 866..1393			GTBX	"AFUc11731, CALc05890"				"6.5e-121, 3.7e-112"			
24273	ENU08068	ANI61C7340: 450..7			GTBX	Y13134				9.1e-28			
24274	ENU08069	ANI61C6611: 98..870			GTBX	AFUc07093				4.5E-60			
24275	ENU08070	ANI61C8071: 516..13			GTBX	AFUc09728				1.8E-53			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24276	ENU08071	ANI61C6614: 1400..874			GTBX	AFUc15221				1.2E-142			
24277	ENU08072	ANI61C8074: 5126..4678			GTBX	AFUc12456				2.7E-29			
24278	ENU08073	ANI61C6616: 377..1089			GTBX	"AFUc05353, AFUc19936"				"1.7e-54, 4.0e-12"			
24279	ENU08074	ANI61C6617: 4827..5366			GTBX	Z47047				1.0e-125			
24280	ENU08075	ANI61C7350: 2489..1882			GTBX	FGRc09585				1.6E-22			
24281	ENU08076	ANI61C8082: 1136..2144			GTBX	AFUc15770				3.9E-135			
24282	ENU08077	ANI61C6626: 6507..7319			GTBX	AFUc10550				2.5E-151			
24283	ENU08078	ANI61C6627: 585..838			GTBX	AFUc03450				3.9E-50			
24284	ENU08079	ANI61C7356: 2072..2291			GTBX	"CALc06084, Y13137"				"4.6e-49, 8.3e-235"			
24285	ENU08080	ANI61C8087: 2424..1939			GTBX	AFUc07211				4.7E-51			
24286	ENU08081	ANI61C5902: 1004..261			GTBX	AFUc12988				3.5E-72			
24287	ENU08082	ANI61C8090: 5575..6094			GTBX	FGRc12352				1E-36			
24288	ENU08083	ANI61C7361: 1567..2745			GTBX	AFUc09895				6.4E-117			
24289	ENU08084	ANI61C5903: 811..368			GTBX	AFUc15950				2.6E-157			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
24290	ENU08085	ANI61C5904: 765..25			GTBX	"AFUc00773, AFUc11153"				"7.1e-16, 1.9e-29"			
24291	ENU08086	ANI61C6635: 944..282			GTBX	AFUc02614				5.8E-36			
24292	ENU08087	ANI61C7364: 1168..2132			GTBX	"AFUc01872, FGRc01926"				"1.0e-136, 2.4e-24"			
24293	ENU08088	ANI61C5907: 1099..443			GTBX	AFUc02783				2.1E-34			
24294	ENU08089	ANI61C6639: 306..7			GTBX	AFUc10259				3.7E-24			
24295	ENU08090	ANI61C5910: 5311..6464			GTBX	AFUc09815				2.6E-69			
24296	ENU08091	ANI61C7370: 369..1672			GTBX	AFUc10420				5E-119			
24297	ENU08092	ANI61C5913: 489..1			GTBX	"FGRc02041, U00092"				"6.1e-12, 6.1e-12"			
24298	ENU08093	ANI61C6644: 1478..646			GTBX	"AFUc06809, AFUc15344"				"4.6e-09, 4.4e-98"			
24299	ENU08094	ANI61C5918: 499..18			GTBX	FGRc07459				6E-57			
24300	ENU08095	ANI61C6649: 1057..2094			GTBX	AFUc15961				2.5E-39			
24301	ENU08096	ANI61C7379: 962..28			GTBX	AFUc08907				1.2E-21			
24302	ENU08097	ANI61C5922: 1491..291			GTBX	"CALc06174, FGRc08383"				"4.5e-31, 4.8e-31"			
24303	ENU08098	ANI61C7381: 300..1060			GTBX	"AFUc10566, AFUc10566"				"3.6e-30, 9.6e-41"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24304	ENU08099	ANI61C6652: 2208..1501			GTBX	AFUc09205				3.9E-50			
24305	ENU08100	ANI61C7387: 575..3			GTBX	FGRc10619				4.7E-31			
24306	ENU08101	ANI61C7387: 1279..1652			GTBX	"AFUc15408, AFUc21306"				"5.7e-19, 1.5e-31"			
24307	ENU08102	ANI61C7389: 1326..60			GTBX	CALc05599				4.8E-124			
24308	ENU08103	ANI61C5930: 3876..5599			GTBX	"AFUc13125, AFUc17372"				"4.4e-183, 1.6e-68"			
24309	ENU08104	ANI61C6660: 2123..319			GTBX	"AFUc00228, AFUc00481, AFUc02234"				"5.3e-27, 1.0e-27, 9.8e-33"			
24310	ENU08105	ANI61C7390: 1588..2441			GTBX	Y13139				1.0e-127			
24311	ENU08106	ANI61C6661: 3226..5249			GTBX	"AFUc12095, FGRc15027"				"2.5e-198, 4.1e-29"			
24312	ENU08107	ANI61C6662: 5034..5514			GTBX	AFUc09341				2.9E-28			
24313	ENU08108	ANI61C7393: 703..293			GTBX	AFUc15863				2.6E-52			
24314	ENU08109	ANI61C5938: 198..1256			GTBX	AFUc12786				3.3E-79			
24315	ENU08110	ANI61C6670: 1277..1597			GTBX	AFUc00716				1.4E-36			
24316	ENU08111	ANI61C5943: 623..93			GTBX	AFUc15520				1.4E-45			
24317	ENU08112	ANI61C6675: 830..254			GTBX	CALc04506				7E-39			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24318	ENU08113	ANI61C5946: 384..1079			GTBX	AFUc13556				1.7E-75			
24319	ENU08114	ANI61C5952: 520..28			GTBX	AFUc17155				3.9E-41			
24320	ENU08115	ANI61C5954: 55..1083			GTBX	"AFUc03799, AFUc10276"				"3.7e-57, 7.3e-09"			
24321	ENU08116	ANI61C6685: 43..903			GTBX	"CALc04792, FGRC09020, U00093"				"2.4e-53, 2.0e-32, 7.8e-49"			
24322	ENU08117	ANI61C5957: 1663..1999			GTBX	AFUc02793				2.2E-30			
24323	ENU08118	ANI61C6686: 4251..5701			GTBX	AFUc15881				6.9E-80			
24324	ENU08119	ANI61C5961: 1203..511			GTBX	AFUc01030				1.1E-38			
24325	ENU08120	ANI61C5964: 1000..1293			GTBX	AFUc15826				1.8E-25			
24326	ENU08121	ANI61C5966: 658..980			GTBX	AFUc14716				8.1E-39			
24327	ENU08122	ANI61C5968: 1055..834			GTBX	Z71256				1.4e-23			
24328	ENU08123	ANI61C5975: 178..611			GTBX	AFUc02362				1.6E-60			
24329	ENU08124	ANI61C5976: 1505..86			GTBX	"AFUc15353, CALc06066, FGRC02066"				"8.2e-52, 6.3e-34, 5.0e-73"			
24330	ENU08125	ANI61S2111: 116..469			GTBX	FGRC08800				3.9E-32			
24331	ENU08126	ANI61C5984: 211..731			GTBX	AFUc15082				4.1E-55			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24332	ENU08127	ANI61C5988: 1524..225			GTBX	"AFUc15870, AFUc18615"				"1.1e-51, 1.5e-32"			
24333	ENU08128	ANI61C3014: 1868..825			GTBX	AFUc12007				3.5E-33			
24334	ENU08129	ANI61C3015: 384..1558			GTBX	"AFUc06441, AFUc18928, FGRC12021, FGRC13993"				"1.4e-23, 2.4e-39, 1.4e-23, 4.5e-17"			
24335	ENU08130	ANI61C5995: 1002..463			GTBX	"AFUc15651, AFUc15651"				"1.3e-66, 4.5e-89"			
24336	ENU08131	ANI61S2128: 94..537			GTBX	AFUc07714				1.3E-44			
24337	ENU08132	ANI61C3022: 992..720			GTBX	AFUc07125				7E-30			
24338	ENU08133	ANI61S2133: 44..472			GTBX	AFUc22602				1.6E-46			
24339	ENU08134	ANI61C2304: 560..132			GTBX	AFUc07438				1.3E-32			
24340	ENU08135	ANI61C3035: 910..296			GTBX	"AFUc11981, FGRC10039"				"6.2e-40, 1.6e-09"			
24341	ENU08136	ANI61C3037: 579..7			GTBX	AFUc09927				7.5E-56			
24342	ENU08137	ANI61C2309: 974..363			GTBX	"AFUc03406, AFUc05614, AFUc08898, CALc05491"				"2.9e-54, 5.7e-54, 1.4e-19, 8.4e-09"			
24343	ENU08138	ANI61C3039: 68..847			GTBX	CALc04805				2E-93			
24344	ENU08139	ANI61C1110 4:3777..2731			GTBX	AFUc12784				1.3E-86			

666666" Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24345	ENU08140	ANI61S2144: 274..16			GTBX	AFUc15701				6.1E-35			
24346	ENU08141	ANI61C1110 8:1698..2135			GTBX	AFUc09253				1.3E-29			
24347	ENU08142	ANI61C2315: 1253..672			GTBX	AFUc12154				1E-49			
24348	ENU08143	ANI61C2318: 473..1164			GTBX	AFUc07159				3.2E-63			
24349	ENU08144	ANI61C3049: 1395..2904			GTBX	FGRc02484				3.6E-39			
24350	ENU08145	ANI61S2150: 378..33			GTBX	AFUc02336				7.9E-61			
24351	ENU08146	ANI61C3050: 625..2162			GTBX	"AFUc12924, FGRc04111"				"9.5e-112, 1.7e-33"			
24352	ENU08147	ANI61C2321: 1194..529			GTBX	AFUc22220				7.8E-50			
24353	ENU08148	ANI61C3053: 2266..185			GTBX	"AFUc00609, AFUc14117, CALc02486"				"3.8e-21, 8.0e-195, 6.4e-24"			
24354	ENU08149	ANI61C3054: 747..2100			GTBX	"AFUc06449, AFUc07501, FGRc07589"				"1.6e-07, 9.4e-11, 1.5e-25"			
24355	ENU08150	ANI61C2325: 747..35			GTBX	AFUc13156				2.7E-24			
24356	ENU08151	ANI61C3057: 21..530			GTBX	Y13139				7.7e-28			
24357	ENU08152	ANI61C1112 0:693..4			GTBX	"AFUc01410, CALc06209"				"9.8e-76, 1.5e-39"			
24358	ENU08153	ANI61C1112 5:508..269			GTBX	CALc06229				9.5E-26			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24359	ENU08154	ANI61C1112 8:3194..4053			GTBX	"AFUc09503, CALc05722"				"1.9e-64, 2.7e-76"			
24360	ENU08155	ANI61S1437: 98..399			GTBX	"AFUc13604, AFUc15296"				"4.7e-25, 3.3e-21"			
24361	ENU08156	ANI61C2330: 2800..3374			GTBX	AFUc15919				1.1E-170			
24362	ENU08157	ANI61C2332: 4378..4578			GTBX	AFUc10180				2.8E-34			
24363	ENU08158	ANI61C3062: 2508..1335			GTBX	Y13134				5.7e-120			
24364	ENU08159	ANI61C1605: 643..1020			GTBX	AFUc10143				5.5E-28			
24365	ENU08160	ANI61C3064: 221..668			GTBX	AFUc13128				8.1E-56			
24366	ENU08161	ANI61C1606: 1693..539			GTBX	"AFUc16378, AFUc21308"				"1.1e-30, 9.5e-19"			
24367	ENU08162	ANI61C1607: 524..31			GTBX	AFUc06472				6.4E-37			
24368	ENU08163	ANI61C2338: 1791..877			GTBX	"AFUc07657, AFUc20776, FGRc03047"				"9.3e-58, 8.4e-27, 7.6e-15"			
24369	ENU08164	ANI61C1040 0:1011..199			GTBX	"AFUc15768, CALc05180"				"1.7e-65, 3.5e-30"			
24370	ENU08165	ANI61C1040 4:1681..456			GTBX	AFUc11156				1.7E-68			
24371	ENU08166	ANI61S2170: 458..150			GTBX	AFUc21244				5.8E-49			
24372	ENU08167	ANI61C2340: 1102..1321			GTBX	AFUc08035				2.2E-21			

Geneious

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
24373	ENU08168	ANI61C3071: 303..1850			GTBX	AFUc06001				3.6E-49			
24374	ENU08169	ANI61C3071: 2656..2201			GTBX	AFUc11320				9.2E-37			
24375	ENU08170	ANI61C2342: 2..1100			GTBX	AFUc15644				3E-54			
24376	ENU08171	ANI61C2343: 385..998			GTBX	AFUc14858				1.2E-21			
24377	ENU08172	ANI61C1614: 1641..69			GTBX	"AFUc15021, FGRc09385"				"7.2e-79, 6.5e-61"			
24378	ENU08173	ANI61C2344: 772..1143			GTBX	AFUc15170				2.4E-32			
24379	ENU08174	ANI61C1616: 635..183			GTBX	AFUc13750				1.9E-41			
24380	ENU08175	ANI61C1618: 784..110			GTBX	AFUc10659				3.1E-61			
24381	ENU08176	ANI61C1619: 2385..1431			GTBX	"AFUc05005, AFUc10889, AFUc21670"				"2.2e-16, 2.4e-24, 2.0e-20"			
24382	ENU08177	ANI61C1041 2:1921..1718			GTBX	AFUc15311				2.9E-43			
24383	ENU08178	ANI61C1114 1:700..41			GTBX	AFUc09651				4.4E-31			
24384	ENU08179	ANI61C1041 5:1713..2470			GTBX	"AFUc08021, AFUc08021"				"1.5e-89, 2.0e-57"			
24385	ENU08180	ANI61C1041 6:448..26			GTBX	AFUc09679				3.7E-37			
24386	ENU08181	ANI61C1114 5:425..91			GTBX	CALc04731				4.5E-30			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24387	ENU08182	ANI61C1114 7:186..1347			GTBX	AFUc16242				1.8E-72			
24388	ENU08183	ANI61C3082: 496..1046			GTBX	AFUc05157				2.9E-38			
24389	ENU08184	ANI61C3085: 184..915			GTBX	"AFUc14050, AFUc20977"				"2.2e-50, 1.7e-18"			
24390	ENU08185	ANI61C3086: 61..600			GTBX	"AFUc21878, FGRcl7423"				"3.0e-42, 2.4e-44"			
24391	ENU08186	ANI61C1042 0:3236..3461			GTBX	AFUc17331				9.8E-26			
24392	ENU08187	ANI61C1630: 739..967			GTBX	AFUc12693				2.2E-25			
24393	ENU08188	ANI61C3090: 4281..4003			GTBX	AFUc09749				8.6E-36			
24394	ENU08189	ANI61C1632: 3..711			GTBX	AFUc13580				4E-80			
24395	ENU08190	ANI61C1633: 895..350			GTBX	AFUc03062				2.2E-33			
24396	ENU08191	ANI61C3094: 77..861			GTBX	AFUc07151				1.3E-47			
24397	ENU08192	ANI61C1637: 500..782			GTBX	AFUc10559				5.6E-53			
24398	ENU08193	ANI61C2367: 2270..1947			GTBX	AFUc02537				7.4E-47			
24399	ENU08194	ANI61C2368: 1548..425			GTBX	AFUc15814				3.5E-57			
24400	ENU08195	ANI61C3097: 135..716			GTBX	"AFUc15533, AFUc15533"				"2.0e-70, 3.3e-35"			

Geneious Desktop

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
24401	ENU08196	ANI61C2369: 3396..4360			GTBX	AFUc14374				2.3E-61			
24402	ENU08197	ANI61C1043 0:732..430			GTBX	"AFUc04312, AFUc04312"				"2.4e-38, 5.3e-50"			
24403	ENU08198	ANI61C1043 2:1380..543			GTBX	"AFUc09009, FGRc21606"				"9.8e-32, 5.5e-37"			
24404	ENU08199	ANI61C1116 3:615..1731			GTBX	Y13134				1.7e-84			
24405	ENU08200	ANI61C1116 7:1389..1628			GTBX	AFUc10437				8.1E-110			
24406	ENU08201	ANI61C1116 8:637..1234			GTBX	"AFUc05778, Y13139"				"9.9e-11, 4.5e-69"			
24407	ENU08202	ANI61C1646: 1677..1930			GTBX	AFUc14823				5.8E-91			
24408	ENU08203	ANI61C2376: 607..1538			GTBX	AFUc10283				2.4E-117			
24409	ENU08204	ANI61C1648: 1309..924			GTBX	AFUc15899				4.3E-26			
24410	ENU08205	ANI61C1117 2:3..540			GTBX	AFUc10300				2.3E-35			
24411	ENU08206	ANI61C1044 6:3962..6140			GTBX	"AFUc08784, AFUc20323, CALc05827, Y13136"				"3.0e-40, 4.1e-64, 1.3e-71, 2.4e-61"			
24412	ENU08207	ANI61C1117 7:38..1146			GTBX	"AFUc17428, AFUc22468"				"2.6e-29, 1.2e-69"			
24413	ENU08208	ANI61C1117 8:26..420			GTBX	FGRc03277				5.9E-21			
24414	ENU08209	ANI61C1654: 963..33			GTBX	CALc05018				1.1E-73			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24415	ENU08210	ANI61C2383: 772..341			GTBX	"AFUc13458, AFUc13458"				"1.4e-69, 6.6e-46"			
24416	ENU08211	ANI61C2386: 1473..1077			GTBX	AFUc05516				2.4E-35			
24417	ENU08212	ANI61C1657: 36..718			GTBX	AFUc01220				3.3E-30			
24418	ENU08213	ANI61C2387: 419..792			GTBX	"AFUc08391, U00093"				"1.1e-29, 1.5e-28"			
24419	ENU08214	ANI61C1045 2:2736..3671			GTBX	"AFUc01446, AFUc03449"				"3.6e-49, 5.3e-62"			
24420	ENU08215	ANI61C1045 5:10291..6040			GTBX	"AFUc02402, AFUc13896, AFUc15794, FGRC10936, FGRC19244"				"7.6e-13, 4.1e-90, 9.2e-59, 4.8e-08, 2.7e-24"			
24421	ENU08216	ANI61C1118 4:2930..1174			GTBX	"AFUc12122, AFUc19794"				"8.4e-30, 3.5e-11"			
24422	ENU08217	ANI61C1118 5:724..365			GTBX	AFUc17013				5.9E-43			
24423	ENU08218	ANI61C1118 6:6652..6341			GTBX	AFUc15274				7.9E-30			
24424	ENU08219	ANI61C1118 7:5255..6412			GTBX	AFUc11057				2.3E-165			
24425	ENU08220	ANI61C1118 8:3786..1817			GTBX	"AFUc03500, FGRC12085"				"3.9e-11, 1.6e-27"			
24426	ENU08221	ANI61C1118 9:437..772			GTBX	AFUc05827				2.1E-56			
24427	ENU08222	ANI61C2396: 4105..3424			GTBX	AFUc20773				1.9E-45			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24428	ENU08223	ANI6IC1667:458..2025			GTBX	"AFUc01694, AFUc03534, AFUc09885"				"5.0e-13, 3.7e-37, 1.5e-68"			
24429	ENU08224	ANI6IC1046 0:2527..3230			GTBX	"AFUc10414, FGRc04734"				"3.0e-47, 4.3e-09"			
24430	ENU08225	ANI6IC1119 1:776..79			GTBX	AFUc15108				3.8E-31			
24431	ENU08226	ANI6IC1046 5:2467..4478			GTBX	"AFUc12339, AFUc12339"				"2.1e-67, 2.9e-31"			
24432	ENU08227	ANI6IC1046 8:4997..5533			GTBX	AFUc08587				8.5E-68			
24433	ENU08228	ANI6IC1119 9:60..490			GTBX	AFUc14731				1.9E-24			
24434	ENU08229	ANI6IC1672:893..597			GTBX	AFUc14113				6.4E-90			
24435	ENU08230	ANI6IC500:2 84..899			GTBX	AFUc12648				1.6E-30			
24436	ENU08231	ANI6IC504:7 20..1087			GTBX	FGRc12152				1.8E-64			
24437	ENU08232	ANI6IC508:3 282..3902			GTBX	AFUc04843				3.5E-38			
24438	ENU08233	ANI6IC1047 7:1761..819			GTBX	"FGRc06621, FGRc19870, FGRc21283"				"2.5e-17, 1.7e-14, 8.5e-50"			
24439	ENU08234	ANI6IC1683:611..1742			GTBX	"AFUc01385, AFUc06858, CALc02967"				"5.7e-25, 1.9e-46, 7.0e-43"			
24440	ENU08235	ANI6IC513:4 15..729			GTBX	FGRc09331				4.8E-67			
24441	ENU08236	ANI6IC1690:414..704			GTBX	AFUc04365				1.2E-36			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24442	ENU08237	ANI61C524:1 24..354			GTBX	AFUc15671				8.4E-83			
24443	ENU08238	ANI61C525:7 223..2333			GTBX	"AFUc09623, AFUc15525, FGRc16821, Z12576, Y13138"				"1.0e-131, 8.9e-312, 4.1e-18, 0.0, 6.5e-82" "4.7e-64, 3.9e-188" 1.1E-65			
24444	ENU08239	ANI61C1049 0:5643..6771			GTBX	"AFUc05896, CALc06013"							
24445	ENU08240	ANI61C528:4 831..4175			GTBX	AFUc13014				1.8E-63			
24446	ENU08241	ANI61C528:7 449..8035			GTBX	AFUc10735							
24447	ENU08242	ANI61C1049 2:1047..2721			GTBX	"AFUc09485, AFUc15798"				"4.7e-32, 1.0e-98"			
24448	ENU08243	ANI61C1049 2:3842..4935			GTBX	"AFUc04378, AFUc07681"				"9.3e-63, 1.7e-11"			
24449	ENU08244	ANI61C529:4 2..431			GTBX	AFUc11443				2.3E-52			
24450	ENU08245	ANI61C1049 5:3717..6173			GTBX	"AFUc05971, AFUc11732, CALc05629, CALc05629"				"6.4e-92, 9.2e-131, 1.3e-193, 6.0e-37" 3.2E-56			
24451	ENU08246	ANI61C534:4 533..5332			GTBX	AFUc08068							
24452	ENU08247	ANI61C534:7 739..6453			GTBX	"AFUc19364, FGRc04608, FGRc14414"				"3.5e-33, 1.7e-10, 3.2e-25"			

Geneious Desktop

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrq	% Description
24453	ENU08248	ANI61C536:7 47..385			GTBX	AFUc09242				1.2E-32			
24454	ENU08249	ANI61C540:1 115..107			GTBX	"AFUc15779, FGRc15231, X59720"				"4.4e-109, 3.4e-42, 4.8e-08"			
24455	ENU08250	ANI61C543:5 4..1726			GTBX	"AFUc10780, CALc05902, Z71257"				"1.1e-30, 5.7e-131, 1.0e-59"			
24456	ENU08251	ANI61C8110: 2590..5977			GTBX	"AFUc15540, FGRc10976, FGRc25479"				"2.6e-137, 2.1e-79, 2.2e-11"			
24457	ENU08252	ANI61C8111: 1800..544			GTBX	AFUc11194				2E-70			
24458	ENU08253	ANI61C8113: 1223..2311			GTBX	CALc04732				2.2E-61			
24459	ENU08254	ANI61C8115: 2748..3329			GTBX	AFUc13681				6.9E-26			
24460	ENU08255	ANI61C8118: 2544..2122			GTBX	AFUc00564				4.7E-45			
24461	ENU08256	ANI61C556:1 452..2621			GTBX	AFUc08057				6.9E-42			
24462	ENU08257	ANI61C556:3 609..3139			GTBX	AFUc05897				8.2E-34			
24463	ENU08258	ANI61C8121: 828..109			GTBX	"AFUc11352, FGRc00210, Y13138"				"2.0e-55, 1.5e-25, 1.6e-29"			
24464	ENU08259	ANI61C8123: 2579..1657			GTBX	AFUc12416				2.2E-38			
24465	ENU08260	ANI61C8127: 1150..2			GTBX	"AFUc05079, AFUc05496"				"1.8e-26, 1.6e-23"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	%	Description
24466	ENU08261	ANI61C565:3 474..5173			GTBX	Z71257				1.0e-107				
24467	ENU08262	ANI61C7402: 111..1536			GTBX	"AFUc06900, AFUc14568"				"2.3e-30, 5.9e-31"				
24468	ENU08263	ANI61C7406: 1092..374			GTBX	"AFUc04078, CALc05482"				"8.6e-47, 1.0e-69"				
24469	ENU08264	ANI61C8136: 3774..4745			GTBX	AFUc13396				2.2E-98				
24470	ENU08265	ANI61C8139: 4306..4841			GTBX	FGRc04774				3.1E-35				
24471	ENU08266	ANI61C576:4 55..90			GTBX	AFUc09285				5.9E-43				
24472	ENU08267	ANI61C8142: 2033..3024			GTBX	AFUc14097				3.3E-35				
24473	ENU08268	ANI61C7414: 299..789			GTBX	AFUc11487				4.3E-59				
24474	ENU08269	ANI61C8146: 340..23			GTBX	Y13138				1.6e-32				
24475	ENU08270	ANI61C8149: 1236..58			GTBX	AFUc15484				4.1E-88				
24476	ENU08271	ANI61C8154: 611..13			GTBX	AFUc01706				2.4E-23				
24477	ENU08272	ANI61C7427: 712..74			GTBX	Y13139				4.6e-19				
24478	ENU08273	ANI61C8158: 2634..1709			GTBX	AFUc12228				5.1E-25				
24479	ENU08274	ANI61C591:6 59..21			GTBX	AFUc10307				4.4E-69				

[illegible]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
24480	ENU08275	ANI61C6703: 3206..4413			GTBX	"AFUc15895, FGRc12402"				"3.6e-40, 6.1e-31"			
24481	ENU08276	ANI61C6705: 4844..5990			GTBX	"AFUc13044, AFUc15912"				"2.2e-106, 3.6e-90"			
24482	ENU08277	ANI61C6710: 1220..1609			GTBX	AFUc01691				1.9E-27			
24483	ENU08278	ANI61C8171: 347..1607			GTBX	"AFUc08832, AFUc09980, FGRc01231"				"4.7e-50, 9.0e-34, 4.2e-51"			
24484	ENU08279	ANI61C8173: 440..2176			GTBX	"AFUc05587, AFUc07211, AFUc08234, AFUc21621"				"1.4e-107, 1.1e-65, 4.8e-95, 2.2e-46"			
24485	ENU08280	ANI61C6719: 484..128			GTBX	AFUc15031				1.6E-36			
24486	ENU08281	ANI61C6720: 349..919			GTBX	AFUc13243				2.8E-68			
24487	ENU08282	ANI61C7451: 1751..2032			GTBX	AFUc01939				1.1E-51			
24488	ENU08283	ANI61C8185: 431..1227			GTBX	"AFUc00988, CALc06038"				"3.3e-60, 2.8e-38"			
24489	ENU08284	ANI61C7457: 434..208			GTBX	AFUc15970				4.2E-78			
24490	ENU08285	ANI61C6728: 612..949			GTBX	AFUc08768				1.8E-44			
24491	ENU08286	ANI61C8188: 3201..1912			GTBX	"AFUc01114, AFUc18282, AFUc20635"				"1.3e-35, 1.4e-22, 8.8e-10"			
24492	ENU08287	ANI61C7459: 697..41			GTBX	AFUc04086				4E-82			

GenBank Submission

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24493	ENU08288	ANI61C6730: 156..509			GTBX	AFUc03916				1.4E-26			
24494	ENU08289	ANI61C8191: 1018..156			GTBX	AFUc09445				3.2E-100			
24495	ENU08290	ANI61C6734: 5607..6701			GTBX	"AFUc21317, Z71257"				"6.1e-07, 1.4e-32"			
24496	ENU08291	ANI61C7465: 1954..2550			GTBX	AFUc14734				3E-161			
24497	ENU08292	ANI61C8194: 2076..2470			GTBX	Y13137				8.2e-186			
24498	ENU08293	ANI61C6738: 5489..4467			GTBX	"AFUc01683, CALc04817, FGRC00806"				"1.6e-45, 3.1e-21, 1.6e-32"			
24499	ENU08294	ANI61C7475: 1427..483			GTBX	"AFUc17643, FGRC05979"				"1.2e-08, 1.2e-45"			
24500	ENU08295	ANI61C7476: 28..1165			GTBX	"AFUc02079, AFUc09659"				"3.0e-52, 7.5e-07"			
24501	ENU08296	ANI61C7479: 864..121			GTBX	AFUc04883				1.9E-88			
24502	ENU08297	ANI61C6750: 1592..800			GTBX	AFUc02986				4.9E-36			
24503	ENU08298	ANI61C7483: 5160..6015			GTBX	"AFUc12789, Y13134"				"3.0e-68, 1.5e-12"			
24504	ENU08299	ANI61C7486: 1350..379			GTBX	"AFUc02949, AFUc04582, FGRC10932"				"7.7e-71, 5.6e-39, 2.7e-18"			
24505	ENU08300	ANI61C6759: 2649..1266			GTBX	"AFUc10464, CALc06073"				"2.9e-71, 4.8e-98"			
24506	ENU08301	ANI61C7491: 481..1258			GTBX	AFUc15766				3.3E-67			

Genomic Coordinates

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
24507	ENU08302	ANI61C6763: 845..1658			GTBX	"AFUc13390, AFUc13390"				"2.5e-45, 3.8e-77"			
24508	ENU08303	ANI61C7493: 1854..41			GTBX	AFUc15810				1.4E-236			
24509	ENU08304	ANI61C7499: 1893..2258			GTBX	AFUc09120				5.7E-46			
24510	ENU08305	ANI61C6771: 955..77			GTBX	"FGRc02670, Y13139"				"4.1e-40, 8.9e-18"			
24511	ENU08306	ANI61C6780: 1542..1913			GTBX	"AFUc17233, FGRc05382"				"7.2e-52, 1.2e-14"			
24512	ENU08307	ANI61C6782: 138..1073			GTBX	AFUc12300				9.2E-80			
24513	ENU08308	ANI61C6786: 269..868			GTBX	"AFUc03905, CALc03405"				"6.3e-25, 3.1e-20"			
24514	ENU08309	ANI61C6789: 1667..164			GTBX	AFUc12649				3E-156			
24515	ENU08310	ANI61S448:4 50..153			GTBX	FGRc24169				2.3E-21			
24516	ENU08311	ANI61C6792: 700..1644			GTBX	"AFUc06967, FGRc12581"				"7.2e-93, 6.8e-27"			
24517	ENU08312	ANI61C6797: 1035..50			GTBX	Y13135				1.3e-48			
24518	ENU08313	ANI61S2206: 326..28			GTBX	AFUc12261				2E-33			
24519	ENU08314	ANI61C3111: 393..719			GTBX	AFUc15581				2.3E-67			
24520	ENU08315	ANI61C3114: 2..476			GTBX	AFUc10952				1E-22			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24521	ENU08316	ANI61C3120: 317..649			GTBX	AFUc14123				8.4E-42			
24522	ENU08317	ANI61C3122: 3..329			GTBX	"AFUc15397, AFUc15397"				"2.9e-45, 3.3e-72"			
24523	ENU08318	ANI61C3133: 776..1003			GTBX	AI001370				6.5e-14			
24524	ENU08319	ANI61C2406: 34..768			GTBX	"AFUc10109, FGRC24183"				"7.3e-07, 5.1e-25"			
24525	ENU08320	ANI61C3138: 1800..2489			GTBX	AFUc09498				1.4E-33			
24526	ENU08321	ANI61C2409: 23..820			GTBX	AFUc10750				2E-71			
24527	ENU08322	ANI61C1120 5:842..1238			GTBX	AFUc21643				1.3E-32			
24528	ENU08323	ANI61C1120 5:7773..7272			GTBX	AFUc06894				6.5E-33			
24529	ENU08324	ANI61C1120 5:10041..10386			GTBX	Z71256				1.6e-24			
24530	ENU08325	ANI61C1120 5:11046..11351			GTBX	AFUc12485				6.5E-33			
24531	ENU08326	ANI61S1516: 546..243			GTBX	AFUc01209				3.3E-46			
24532	ENU08327	ANI61C2411: 175..744			GTBX	"AFUc06238, AFUc21228"				"1.6e-65, 6.8e-08"			
24533	ENU08328	ANI61C2411: 2361..1216			GTBX	"AFUc03672, CALc04359, Y13139"				"1.9e-38, 1.1e-41, 1.9e-46"			
24534	ENU08329	ANI61C3145: 4077..2208			GTBX	"AFUc03167, AFUc13827"				"9.6e-59, 1.2e-88"			

66666" Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24535	ENU08330	ANI61C3148: 230..1073			GTBX	CALc04288				1.6E-87			
24536	ENU08331	ANI61C1121 0:954..656			GTBX	AFUc14655				3.6E-46			
24537	ENU08332	ANI61C1121 1:1639..690			GTBX	"AFUc05869, AFUc10580, CALc05396"				"1.3e-83, 6.3e-32, 2.3e-89"			
24538	ENU08333	ANI61C1121 4:784..401			GTBX	AFUc15114				1.7E-60			
24539	ENU08334	ANI61C1121 5:541..134			GTBX	AFUc16004				3.7E-24			
24540	ENU08335	ANI61C2420: 2226..2459			GTBX	AFUc03940				6.5E-27			
24541	ENU08336	ANI61C2421: 1057..1414			GTBX	AFUc14756				6.7E-28			
24542	ENU08337	ANI61C2422: 257..1093			GTBX	"AFUc03549, AFUc13726, AFUc13726"				"5.5e-44, 1.6e-28, 2.0e-32"			
24543	ENU08338	ANI61C3152: 439..3434			GTBX	"AFUc11188, U00093"				"1.5e-114, 4.5e-202"			
24544	ENU08339	ANI61C3157: 40..494			GTBX	AFUc21873				2.7E-28			
24545	ENU08340	ANI61C3158: 3582..2955			GTBX	AFUc07435				1.2E-47			
24546	ENU08341	ANI61C1122 3:2614..2006			GTBX	CALc05628				2.8E-47			
24547	ENU08342	ANI61C1122 9:5179..6489			GTBX	"AFUc11755, Y13135"				"2.0e-63, 5.7e-100"			

Contig = 02340166

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24548	ENU08343	ANI61C2431: 976..59			GTBX	"AFUc01570, AFUc08276"				"4.3e-28, 4.5e-32"			
24549	ENU08344	ANI61C1705: 4995..6299			GTBX	"AFUc00996, Y13134"				"2.1e-19, 9.6e-50"			
24550	ENU08345	ANI61C3165: 211..726			GTBX	CALc05020				4.8E-24			
24551	ENU08346	ANI61C3166: 752..138			GTBX	AFUc13944				2.1E-53			
24552	ENU08347	ANI61C2437: 2200..3538			GTBX	"AFUc01000, AFUc04109, FGRc04331"				"1.2e-28, 2.5e-53, 1.1e-51"			
24553	ENU08348	ANI61C1123 0:3214..1952			GTBX	"AFUc14997, AFUc14997"				"6.3e-80, 6.5e-66"			
24554	ENU08349	ANI61C1050 1:6263..7127			GTBX	Y13138				0.0			
24555	ENU08350	ANI61C1050 6:2..538			GTBX	CALc06073				3.1E-47			
24556	ENU08351	ANI61C1050 8:522..79			GTBX	AFUc13411				3.9E-26			
24557	ENU08352	ANI61C3170: 1199..657			GTBX	AFUc14288				1.1E-73			
24558	ENU08353	ANI61C1713: 2645..1891			GTBX	AFUc03044				4.3E-26			
24559	ENU08354	ANI61C2446: 844..49			GTBX	"AFUc12955, AFUc12955"				"4.9e-32, 9.8e-62"			
24560	ENU08355	ANI61C3177: 3..1536			GTBX	AFUc14427				6.3E-206			
24561	ENU08356	ANI61C2449: 872..402			GTBX	AFUc08082				2.2E-37			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24562	ENU08357	ANI61C1051 0:802..64			GTBX	"AFUc07339, CALc05205"				"1.5e-12, 3.1e-65"			
24563	ENU08358	ANI61C1124 4:331..774			GTBX	FGRc11233				3.4E-30			
24564	ENU08359	ANI61C1124 7:390..923			GTBX	"AFUc18726, AFUc19650"				"1.9e-34, 3.1e-43"			
24565	ENU08360	ANI61C1124 8:23..337			GTBX	AFUc11164				8.1E-22			
24566	ENU08361	ANI61C1720: 1126..146			GTBX	CALc06237				1.6E-27			
24567	ENU08362	ANI61C2450: 1275..88			GTBX	"AFUc09645, FGRc11399, Z4707"				"4.6e-38, 1.9e-11, 2.9e-26" 4.7E-46			
24568	ENU08363	ANI61C2455: 1089..1600			GTBX	AFUc06803							
24569	ENU08364	ANI61C1726: 3193..2059			GTBX	AFUc12449				6.8E-58			
24570	ENU08365	ANI61C3187: 2309..2737			GTBX	AFUc10771				1.6E-42			
24571	ENU08366	ANI61C2459: 3630..4313			GTBX	AFUc04986				8.6E-77			
24572	ENU08367	ANI61C1052 6:98..790			GTBX	"AFUc03097, AFUc07509"				"5.2e-13, 2.5e-67"			
24573	ENU08368	ANI61C1125 7:320..47			GTBX	AFUc08915				7.9E-28			
24574	ENU08369	ANI61C1052 8:381..724			GTBX	AFUc04981				3E-23			
24575	ENU08370	ANI61C1052 9:1858..763			GTBX	AFUc01784				2.8E-27			

Gene Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
24576	ENU08371	ANI61C2461: 2065..212			GTBX	AFUc10369				8.3E-53			
24577	ENU08372	ANI61C2465: 698..3702			GTBX	"AFUc07667, AFUc12566, AFUc13531, AFUc14327, AFUc14338, AFUc15132, FGRc00835, FGRc17112"				"4.3e-12, 1.1e-38, 3.3e-23, 2.0e-42, 2.0e-63, 2.5e-52, 6.0e-27, 1.2e-08"			
24578	ENU08373	ANI61C3199: 1590..2454			GTBX	"AFUc05935, AFUc15519"				"1.3e-10, 1.3e-45"			
24579	ENU08374	ANI61C1126 0:326..605			GTBX	"AFUc15094, AFUc15094, Y13134"				"2.3e-14, 4.6e-17, 2.0e-24"			
24580	ENU08375	ANI61C1126 3:305..27			GTBX	AFUc09950				3.4E-34			
24581	ENU08376	ANI61C1053 4:344..592			GTBX	AFUc13512				2.2E-56			
24582	ENU08377	ANI61C1053 5:4543..3779			GTBX	AFUc14535				1.7E-97			
24583	ENU08378	ANI61C1126 4:350..51			GTBX	AFUc09251				2.3E-41			
24584	ENU08379	ANI61C1126 8:188..526			GTBX	AFUc09884				2.5E-21			
24585	ENU08380	ANI61C1743: 412..1446			GTBX	"AFUc07667, AFUc08168, AFUc08900, AFUc14327"				"3.8e-15, 7.4e-50, 4.1e-11, 5.1e-48"			
24586	ENU08381	ANI61C2475: 1147..548			GTBX	AFUc02096				1.4E-43			
24587	ENU08382	ANI61C2479: 1298..1026			GTBX	AFUc06657				1.2E-22			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
24588	ENU08383	ANI61C1054 1:2168..395			GTBX	"AFUc04995, AFUc12046, Y13140"				"2.7e-54, 6.8e-95, 3.0e-130"			
24589	ENU08384	ANI61C1054 5:959..741			GTBX	AFUc15910				4.5E-34			
24590	ENU08385	ANI61C1127 7:180..648			GTBX	"AFUc03512, AFUc08783, FGRc19235"				"7.0e-22, 1.4e-10, 7.8e-21"			
24591	ENU08386	ANI61C1127 8:3084..2773			GTBX	AFUc15452				2.4E-40			
24592	ENU08387	ANI61S1589: 24..506			GTBX	AFUc05281				1E-39			
24593	ENU08388	ANI61C2482: 122..700			GTBX	AFUc16564				6.8E-50			
24594	ENU08389	ANI61C1757: 2400..2857			GTBX	AFUc09694				1.4E-62			
24595	ENU08390	ANI61C1758: 6614..5099			GTBX	"AFUc11939, FGRc23525"				"9.7e-68, 3.5e-10"			
24596	ENU08391	ANI61C1128 0:736..2349			GTBX	"AFUc01284, AFUc02695, AFUc04437"				"3.0e-33, 1.2e-16, 7.2e-15"			
24597	ENU08392	ANI61C1055 5:4688..5219			GTBX	U00094				0.0			
24598	ENU08393	ANI61C1055 9:1572..2414			GTBX	"AFUc03219, AFUc12227"				"3.1e-57, 1.3e-19"			
24599	ENU08394	ANI61C1761: 2281..3753			GTBX	"AFUc09407, FGRc11267, FGRc11267"				"5.6e-36, 1.0e-18, 2.1e-19"			
24600	ENU08395	ANI61C2491: 1150..365			GTBX	"AFUc21763, FGRc25482"				"1.6e-63, 8.0e-19"			

Geneious v6.5.0

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24601	ENU08396	ANI61C1765: 3849..4804			GTBX	AFUc08160				2.4E-108			
24602	ENU08397	ANI61C1768: 1071..245			GTBX	"CALc05020, FGRc07538, Y13134"				"2.8e-133, 2.6e-107, 2.6e-107"			
24603	ENU08398	ANI61C1769: 630..424			GTBX	AFUc15659				1.1E-24			
24604	ENU08399	ANI61C1056 0:379..587			GTBX	FGRc10510				1.5E-36			
24605	ENU08400	ANI61C1129 1:680..3			GTBX	"AFUc01382, AFUc06747"				"2.4e-16, 2.3e-108"			
24606	ENU08401	ANI61C1129 2:992..1827			GTBX	"AFUc01815, AFUc19145"				"4.1e-10, 5.5e-40"			
24607	ENU08402	ANI61C1129 3:1130..708			GTBX	"AFUc09000, Y13134"				"3.5e-81, 4.3e-40"			
24608	ENU08403	ANI61C1129 4:28..565			GTBX	AFUc04474				6E-68			
24609	ENU08404	ANI61C1129 8:975..145			GTBX	"CALc04432, FGRc05226"				"8.9e-80, 2.7e-19"			
24610	ENU08405	ANI61C1129 9:1350..1568			GTBX	CALc03902				7E-40			
24611	ENU08406	ANI61C1774: 450..851			GTBX	AFUc11966				5.9E-46			
24612	ENU08407	ANI61C1779: 391..849			GTBX	AFUc12781				9.6E-30			
24613	ENU08408	ANI61C1057 4:957..691			GTBX	AFUc09666				2.4E-38			

blast2seq description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24614	ENU08409	ANI61C1781:5..532			GTBX	"AFUc09001, CALc06053"				"3.6e-17, 7.5e-30"			
24615	ENU08410	ANI61C614:8 1..879			GTBX	AFUc21798				8.5E-31			
24616	ENU08411	ANI61C617:7 90..344			GTBX	AFUc01603				8.4E-73			
24617	ENU08412	ANI61C1058 7:125..1577			GTBX	"AFUc13537, AFUc15937, AFUc16854, AFUc18057"				"6.1e-43, 9.1e-33, 5.3e-07, 7.5e-60"			
24618	ENU08413	ANI61C1058 9:4717..6120			GTBX	AFUc16933				8.6E-28			
24619	ENU08414	ANI61C621:9 88..27			GTBX	AFUc13969				3.8E-62			
24620	ENU08415	ANI61C629:1 426..1674			GTBX	AFUc10182				2.2E-44			
24621	ENU08416	ANI61C632:2 615..2967			GTBX	AFUc13337				2.6E-69			
24622	ENU08417	ANI61C638:1 513..642			GTBX	AFUc13559				1.7E-119			
24623	ENU08418	ANI61C8202:2327..2693			GTBX	AFUc09447				1.7E-72			
24624	ENU08419	ANI61C8205:1..564			GTBX	AFUc11001				1.7E-28			
24625	ENU08420	ANI61C8211:438..914			GTBX	AFUc10534				3.7E-117			
24626	ENU08421	ANI61C8212:1480..1118			GTBX	AFUc15391				3.5E-112			
24627	ENU08422	ANI61C8220:4..444			GTBX	AFUc05936				2.8E-55			

Sequence Comparison

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24628	ENU08423	ANI61C8225:1437..173			GTBX	"AFUc05414, CALc04219"				"7.7e-59, 4.0e-44"			
24629	ENU08424	ANI61C661:391..8			GTBX	AFUc07993				4.6E-33			
24630	ENU08425	ANI61C7502:2085..4478			GTBX	"AFUc11007, Y13135"				"2.0e-65, 1.3e-154"			
24631	ENU08426	ANI61C7503:2046..2255			GTBX	Y13134				3.1e-237			
24632	ENU08427	ANI61C8233:608..326			GTBX	"AFUc15337, AFUc15337"				"3.3e-113, 4.3e-123"			
24633	ENU08428	ANI61C8235:1473..2074			GTBX	"AFUc12073, CALc06007"				"3.1e-32, 1.9e-83"			
24634	ENU08429	ANI61C8236:542..1400			GTBX	AFUc00714				6.8E-52			
24635	ENU08430	ANI61C8238:950..1813			GTBX	AFUc20930				2.6E-32			
24636	ENU08431	ANI61C670:364..585			GTBX	AFUc13626				6.8E-35			
24637	ENU08432	ANI61C671:112..549			GTBX	"AFUc15558, AFUc15558"				"2.0e-65, 4.8e-61"			
24638	ENU08433	ANI61C678:814..30			GTBX	AFUc13964				1.5E-29			
24639	ENU08434	ANI61C8245:1570..437			GTBX	"AFUc14341, FGRC04315"				"1.6e-105, 5.4e-36"			
24640	ENU08435	ANI61C682:2213..1222			GTBX	AFUc15961				1.5E-25			

66666" 00000000

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrq	Description
24641	ENU08436	ANI61C686:5 347..6396			GTBX	"AFUc10299, AFUc13858, AFUc17463"				"5.8e-31, 4.5e-20, 1.1e-57"			
24642	ENU08437	ANI61C686:7 598..6771			GTBX	AFUc04010				1.6E-37			
24643	ENU08438	ANI61C8251: 42..2483			GTBX	"AFUc09565, AFUc20070"				"1.2e- 104, 1.6e-30"			
24644	ENU08439	ANI61C7527: 1671..5042			GTBX	"AFUc10374, AFUc13490, AFUc18055"				"9.3e- 166, 7.1e- 130, 2.1e-26"			
24645	ENU08440	ANI61C8257: 5189..6135			GTBX	"AFUc03480, AFUc13151"				"4.8e-40, 6.3e-85"			
24646	ENU08441	ANI61C699:7 57..494			GTBX	FGRc01809				2.4E-42			
24647	ENU08442	ANI61C6802: 616..2355			GTBX	"AFUc00490, FGRc08907, FGRc25065"				"4.3e-13, 1.1e-44, 1.9e-32"			
24648	ENU08443	ANI61C6803: 300..656			GTBX	AFUc10335				5.4E-24			
24649	ENU08444	ANI61C6804: 1450..522			GTBX	"AFUc02585, AFUc16083, AFUc18105"				"2.3e-28, 5.8e-13, 2.4e-10"			
24650	ENU08445	ANI61C6805: 531..136			GTBX	AFUc13932				4.2E-39			
24651	ENU08446	ANI61C7536: 1..513			GTBX	AFUc15302				9.7E-24			
24652	ENU08447	ANI61C7537: 1238..2244			GTBX	AFUc06075				1.5E-85			
24653	ENU08448	ANI61C6809: 146..427			GTBX	AFUc11377				2.2E-23			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	nebi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
24654	ENU08449	ANI61C8269: 46..569			GTBX	AFUc07452				1.1E-34			
24655	ENU08450	ANI61C6810: 5679..6098			GTBX	AFUc19773				1.5E-29			
24656	ENU08451	ANI61C8270: 427..31			GTBX	"AFUc04808, AFUc04808"				"2.1e-45, 7.2e-47"			
24657	ENU08452	ANI61C8271: 986..34			GTBX	AFUc15466				1.5E-46			
24658	ENU08453	ANI61C7542: 122..989			GTBX	"AFUc11101, AFUc11101"				"4.8e-38, 8.3e-26"			
24659	ENU08454	ANI61C7543: 1033..176			GTBX	"AFUc15495, FGRC16134"				"8.0e-47, 4.6e-07"			
24660	ENU08455	ANI61C8272: 1151..1600			GTBX	AFUc14280				1.7E-82			
24661	ENU08456	ANI61C6815: 1176..454			GTBX	FGRC10208				5.2E-54			
24662	ENU08457	ANI61C7549: 1848..425			GTBX	"AFUc04568, FGRC00446"				"2.7e-28, 8.6e-14"			
24663	ENU08458	ANI61C8279: 1068..691			GTBX	FGRC20509				1.3E-23			
24664	ENU08459	ANI61C6820: 1111..501			GTBX	AFUc03505				1.6E-49			
24665	ENU08460	ANI61C8286: 479..137			GTBX	AFUc15334				1.6E-21			
24666	ENU08461	ANI61C8286: 839..1285			GTBX	AFUc14069				9.5E-45			
24667	ENU08462	ANI61C6829: 1840..166			GTBX	"CALc03297, Y13139"				"1.2e-17, 3.4e-56"			

Gene description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24668	ENU08463	ANI61C8288: 1325..501			GTBX	AFUc05810				2.6E-31			
24669	ENU08464	ANI61C6831: 148..1585			GTBX	"AFUc04998, FGRc01824"				"5.7e-56, 3.5e-16"			
24670	ENU08465	ANI61C6834: 357..867			GTBX	"AFUc12667, AFUc15842"				"8.8e-56, 2.3e-15"			
24671	ENU08466	ANI61C7563: 1403..972			GTBX	AFUc06136				1.6E-52			
24672	ENU08467	ANI61C6835: 679..1407			GTBX	AFUc03378				6.6E-21			
24673	ENU08468	ANI61C8295: 336..1098			GTBX	"FGRc00692, FGRc11948"				"3.8e-30, 3.3e-22"			
24674	ENU08469	ANI61C7566: 1430..741			GTBX	AFUc19723				3.7E-27			
24675	ENU08470	ANI61C6839: 5869..5612			GTBX	"AFUc04055, AFUc05745"				"3.1e-13, 8.0e-61"			
24676	ENU08471	ANI61C8299: 716..3012			GTBX	"AFUc09176, AFUc09176, FGRc09522"				"1.3e-165, 2.6e-63, 7.0e-09"			
24677	ENU08472	ANI61C7570: 583..1210			GTBX	FGRc00007				2.2E-68			
24678	ENU08473	ANI61C7571: 608..210			GTBX	AFUc10686				1E-25			
24679	ENU08474	ANI61C7577: 78..566			GTBX	AFUc00513				8.2E-23			
24680	ENU08475	ANI61C7578: 2539..2834			GTBX	AFUc02252				3.3E-31			
24681	ENU08476	ANI61C7587: 2348..2067			GTBX	FGRc12388				3E-31			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24682	ENU08477	ANI61C7588:1381..602			GTBX	"AFUc06763, AFUc07411, FGRc21800"				"2.5e-71, 1.4e-13, 2.1e-20"			
24683	ENU08478	ANI61S519:2..592			GTBX	"FGRc07962, FGRc16898"				"1.1e-09, 1.8e-29"			
24684	ENU08479	ANI61C7591:1015..1599			GTBX	AFUc12136				2.1E-78			
24685	ENU08480	ANI61C6863:1573..1244			GTBX	AFUc10542				7.8E-26			
24686	ENU08481	ANI61C6864:2992..4626			GTBX	"AFUc07814, CALc01848, Z17256"				"2.5e-77, 6.1e-27, 2.2e-30"			
24687	ENU08482	ANI61C6870:949..73			GTBX	"AFUc09260, CALc05985"				"1.4e-91, 4.6e-57"			
24688	ENU08483	ANI61C6874:509..30			GTBX	AFUc15201				8.3E-117			
24689	ENU08484	ANI61C6875:478..1035			GTBX	"AFUc15186, AFUc15186"				"2.1e-45, 9.8e-52"			
24690	ENU08485	ANI61C6883:6..281			GTBX	AFUc08480				2.3E-27			
24691	ENU08486	ANI61C6883:1538..1254			GTBX	AFUc08221				6.7E-38			
24692	ENU08487	ANI61C6888:2405..2970			GTBX	AFUc11742				1.8E-66			
24693	ENU08488	ANI61C6890:1004..189			GTBX	AFUc08698				4E-54			
24694	ENU08489	ANI61C6890:1898..2209			GTBX	AFUc09533				2.4E-56			
24695	ENU08490	ANI61C6891:1691..1221			GTBX	AFUc03109				5.6E-25			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24696	ENU08491	ANI61C6896: 960..191			GTBX	AFUc14439				6.5E-64			
24697	ENU08492	ANI61C6897: 9..776			GTBX	AFUc12120				2E-37			
24698	ENU08493	ANI61S2306: 399..4			GTBX	"AFUc13642, Y13138"				"4.5e-52, 4.1e-09"			
24699	ENU08494	ANI61C3208: 1447..1953			GTBX	AFUc10936				5.8E-66			
24700	ENU08495	ANI61C3209: 956..2284			GTBX	AFUc15271				8.2E-44			
24701	ENU08496	ANI61S2314: 70..548			GTBX	CALc06228				2.1E-21			
24702	ENU08497	ANI61S3044: 78..524			GTBX	CALc05604				6E-28			
24703	ENU08498	ANI61C3211: 1102..2301			GTBX	"AFUc19019, FGRC18454, Y13138"				"1.4e-48, 1.4e-29, 5.3e-105"			
24704	ENU08499	ANI61C3214: 567..1777			GTBX	"AFUc19711, AFUc21339"				"8.6e-54, 5.8e-35"			
24705	ENU08500	ANI61C3215: 3946..5307			GTBX	"AFUc12382, AFUc15610"				"2.2e-89, 6.9e-46"			
24706	ENU08501	ANI61C3217: 1504..2206			GTBX	"AFUc13189, AFUc21901"				"9.0e-158, 9.1e-10"			
24707	ENU08502	ANI61S2328: 554..315			GTBX	"AFUc10225, Z71257"				"1.5e-14, 7.1e-55"			
24708	ENU08503	ANI61C3226: 785..93			GTBX	"AFUc08295, AFUc08295"				"1.9e-41, 7.2e-37"			
24709	ENU08504	ANI61C2503: 1119..1520			GTBX	"FGRC05378, FGRC11560"				"8.0e-32, 7.5e-31"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24710	ENU08505	ANI61C3235: 59..1675			GTBX	"AFUc01811, AFUc13887, CALc04895, FGRc00754, FGRc05142"				"1.3e-75, 1.1e-16, 3.0e-61, 1.2e-51, 2.5e-23"			
24711	ENU08506	ANI61C3236: 1660..614			GTBX	AFUc10571				4.8E-29			
24712	ENU08507	ANI61C2507: 1225..200			GTBX	"AFUc02726, AFUc04017"				"1.0e-27, 3.9e-66"			
24713	ENU08508	ANI61C2508: 906..65			GTBX	AFUc04584				3.6E-41			
24714	ENU08509	ANI61C2509: 1495..683			GTBX	AFUc14282				1.2E-102			
24715	ENU08510	ANI61C3238: 2274..3441			GTBX	CALc05093				5E-33			
24716	ENU08511	ANI61C1130 0:1611..872			GTBX	Z71257				2.2e-76			
24717	ENU08512	ANI61C1130 1:137..2796			GTBX	"AFUc05446, AFUc08551, AFUc16108, AFUc20988, CALc01643"				"7.2e-11, 2.8e-38, 3.1e-61, 2.3e-43, 1.5e-17"			
24718	ENU08513	ANI61C2510: 555..49			GTBX	CALc05636				3.6E-63			
24719	ENU08514	ANI61C2511: 1515..260			GTBX	CALc05278				6.4E-124			
24720	ENU08515	ANI61C2512: 41..685			GTBX	AFUc14444				3.6E-48			
24721	ENU08516	ANI61C3245: 2214..196			GTBX	"AFUc15224, FGRc07913"				"4.4e-65, 7.4e-51"			
24722	ENU08517	ANI61C1131 7:109..887			GTBX	AFUc06140				1.4E-48			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
24723	ENU08518	ANI61S3085:1..474			GTBX	AFUc10385				6E-34			
24724	ENU08519	ANI61C3251:2782..3157			GTBX	AFUc13043				4.6E-49			
24725	ENU08520	ANI61C3255:2764..2980			GTBX	Y13140				9.5e-39			
24726	ENU08521	ANI61C11325:653..41			GTBX	AFUc10893				2.6E-39			
24727	ENU08522	ANI61C11328:1793..19			GTBX	"AFUc02484, AFUc04329, AFUc14153"				"2.1e-21, 2.0e-53, 2.9e-174"			
24728	ENU08523	ANI61C3261:2760..3156			GTBX	AFUc15767				1.4E-271			
24729	ENU08524	ANI61C3262:516..42			GTBX	AFUc16517				6.2E-38			
24730	ENU08525	ANI61C3264:1738..2478			GTBX	"AFUc02688, AFUc15728, AFUc15728"				"1.7e-46, 2.2e-30, 6.4e-109"			
24731	ENU08526	ANI61C2538:16..453			GTBX	"AFUc14903, AFUc15880"				"9.3e-25, 8.8e-07"			
24732	ENU08527	ANI61C10601:1012..2306			GTBX	"CALc06147, FGRc12101"				"2.7e-25, 6.2e-23"			
24733	ENU08528	ANI61C10602:1474..542			GTBX	"AFUc03068, FGRc11923"				"1.3e-91, 7.4e-43"			
24734	ENU08529	ANI61C11332:469..3			GTBX	FGRc25342				8.3E-21			
24735	ENU08530	ANI61C11333:419..3			GTBX	AFUc07909				4.1E-39			

Geneious Desktop

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
24736	ENU08531	ANI61C1060 5:763..5			GTBX	"AFUc09745, CALc06186"				"7.8e-56, 1.0e-55"			
24737	ENU08532	ANI61C1133 6:88..652			GTBX	AFUc15671				1.8E-77			
24738	ENU08533	ANI61C2540: 53..867			GTBX	"AFUc14945, AFUc22252"				"2.1e-11, 1.6e-31"			
24739	ENU08534	ANI61C1811: 216..464			GTBX	FGRc11239				2.3E-23			
24740	ENU08535	ANI61C2541: 386..1450			GTBX	"AFUc03214, FGRc12435"				"2.1e-101, 6.5e-10"			
24741	ENU08536	ANI61C3271: 618..4			GTBX	AFUc10952				2.1E-36			
24742	ENU08537	ANI61C2544: 1425..331			GTBX	"AFUc10649, AFUc12123"				"3.1e-51, 4.0e-17"			
24743	ENU08538	ANI61C3274: 2373..2881			GTBX	AFUc02920				4.4E-81			
24744	ENU08539	ANI61C3279: 1619..1183			GTBX	AFUc14951				8E-175			
24745	ENU08540	ANI61C1134 3:331..1459			GTBX	"AFUc09854, AFUc09854"				"2.4e-113, 2.9e-87"			
24746	ENU08541	ANI61C1061 5:1232..399			GTBX	"AFUc18846, FGRc03863"				"5.5e-67, 4.5e-27"			
24747	ENU08542	ANI61C1134 5:1952..1431			GTBX	AFUc14213				4.3E-49			
24748	ENU08543	ANI61C1134 6:1470..487			GTBX	"AFUc00459, AFUc17980, AFUc18124, FGRc01734"				"1.5e-13, 1.6e-21, 3.9e-31, 1.8e-40"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24763	ENU08558	ANI61C2568: 24..638			GTBX	AFUc05821				1.1E-28			
24764	ENU08559	ANI61C1839: 330..1127			GTBX	"AFUc09025, AFUc11515"				"6.1e-41, 5.2e-77"			
24765	ENU08560	ANI61C1063 0:465..32			GTBX	AFUc05997				6.4E-30			
24766	ENU08561	ANI61C1063 1:186..1843			GTBX	"AFUc01713, AFUc05435, AFUc05435"				"1.3e-63, 6.4e-41, 6.5e-55"			
24767	ENU08562	ANI61C1840: 1346..639			GTBX	AFUc18505				1.1E-37			
24768	ENU08563	ANI61C1843: 115..501			GTBX	FGRc11281				8.9E-46			
24769	ENU08564	ANI61C1846: 284..1741			GTBX	"FGRc02282, FGRc05940, FGRc11631"				"2.6e-23, 1.4e-13, 1.3e-09"			
24770	ENU08565	ANI61C2577: 199..920			GTBX	"CALc05069, FGRc17612"				"2.7e-41, 6.0e-44"			
24771	ENU08566	ANI61C1064 1:1707..3655			GTBX	"AFUc11683, Y13135"				"3.3e-190, 5.1e-119"			
24772	ENU08567	ANI61C1137 2:74..894			GTBX	AFUc17844				3.7E-26			
24773	ENU08568	ANI61C1064 5:47..619			GTBX	AFUc21723				2E-68			
24774	ENU08569	ANI61C2582: 5424..5048			GTBX	AFUc01594				1.5E-28			
24775	ENU08570	ANI61C1856: 658..141			GTBX	AFUc16536				3.5E-26			
24776	ENU08571	ANI61C2588: 754..22			GTBX	"AFUc08407, FGRc10457"				"4.6e-49, 6.6e-60"			

GenBank Submission

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
24777	ENU08572	ANI61C2589:186..1330			GTBX	AFUc13209				8.9E-77			
24778	ENU08573	ANI61C11381:1081..1457			GTBX	AFUc17037				5.9E-32			
24779	ENU08574	ANI61C11383:624..383			GTBX	FGRc08856				4.6E-27			
24780	ENU08575	ANI61C10654:7892..8920			GTBX	Y13135				3.8e-149			
24781	ENU08576	ANI61C10655:912..54			GTBX	CALc06050				4.2E-84			
24782	ENU08577	ANI61C10657:6666..6094			GTBX	AFUc03173				6.6E-39			
24783	ENU08578	ANI61C11388:62..701			GTBX	AFUc15731				4.1E-47			
24784	ENU08579	ANI61C1861:1870..524			GTBX	AFUc14963				3E-180			
24785	ENU08580	ANI61C2592:1363..3			GTBX	"AFUc17647, FGRc25036"				"9.1e-29, 1.8e-53"			
24786	ENU08581	ANI61C1865:1589..2224			GTBX	AFUc06633				1.4E-63			
24787	ENU08582	ANI61C2594:5002..1392			GTBX	"AFUc09935, Y13140"				"3.6e-55, 0.0"			
24788	ENU08583	ANI61C1866:1568..1080			GTBX	AFUc10713				4.1E-44			
24789	ENU08584	ANI61C2599:460..72			GTBX	Y13135				2.6e-62			
24790	ENU08585	ANI61C10665:664..406			GTBX	AFUc02315				5.3E-23			

Geneious

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24791	ENU08586	ANI61C1139 5:3021..2575			GTBX	AFUc22562				1.1E-28			
24792	ENU08587	ANI61C1871: 260..54			GTBX	"AFUc01385, AFUc09613"				"3.1e-34, 1.1e-19"			
24793	ENU08588	ANI61C1067 3:922..1413			GTBX	CALc03969				3.2E-57			
24794	ENU08589	ANI61C1067 5:2719..1441			GTBX	"AFUc15461, AFUc15461"				"1.2e-96, 2.3e-121"			
24795	ENU08590	ANI61C1067 5:3404..3889			GTBX	AFUc10889				2.7E-50			
24796	ENU08591	ANI61C1067 8:1080..600			GTBX	AFUc11094				8.3E-27			
24797	ENU08592	ANI61C9002: 1846..878			GTBX	AFUc11192				3.2E-94			
24798	ENU08593	ANI61C9004: 3235..3965			GTBX	"AFUc11110, Y13138"				"5.7e-30, 1.2e-14"			
24799	ENU08594	ANI61C9008: 314..861			GTBX	AFUc12481				2.4E-63			
24800	ENU08595	ANI61C1880: 72..1179			GTBX	"AFUc04431, AFUc16451"				"1.6e-82, 2.8e-14"			
24801	ENU08596	ANI61C1883: 546..19			GTBX	AFUc21307				3.5E-30			
24802	ENU08597	ANI61C1885: 1021..95			GTBX	AFUc10552				1.1E-64			
24803	ENU08598	ANI61C710:2 805..1017			GTBX	"AFUc11549, AFUc15367, AFUc17813"				"1.5e-81, 1.0e-41, 4.1e-53"			
24804	ENU08599	ANI61C713:1 670..74			GTBX	"AFUc05242, AFUc10990"				"6.0e-55, 2.5e-114"			

blast - 0.5.1

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
24805	ENU08600	ANI61C1068 3:1487..1242			GTBX	AFUc13939				1.4E-22			
24806	ENU08601	ANI61C1068 9:1065..390			GTBX	"AFUc13250, FGRc13107"				"6.4e-93, 1.4e-10"			
24807	ENU08602	ANI61C9015: 405..1			GTBX	AFUc12921				3.1E-56			
24808	ENU08603	ANI61C1895: 23..652			GTBX	AFUc10988				1.4E-60			
24809	ENU08604	ANI61C720:1 602..685			GTBX	CALc06106				3.6E-78			
24810	ENU08605	ANI61C1069 5:865..252			GTBX	AFUc10487				9.9E-50			
24811	ENU08606	ANI61C9025: 463..194			GTBX	AFUc00949				5.1E-49			
24812	ENU08607	ANI61C8300: 800..189			GTBX	"AFUc08390, AFUc13837"				"3.3e-41, 6.5e-22"			
24813	ENU08608	ANI61C9030: 1085..11			GTBX	"AFUc06221, CALc06213, Y13134"				"8.3e-40, 2.3e-13, 4.6e-13"			
24814	ENU08609	ANI61C9039: 5769..6530			GTBX	"AFUc00570, FGRc14945"				"3.4e-28, 2.5e-08"			
24815	ENU08610	ANI61C8310: 465..181			GTBX	FGRc10180				3.2E-24			
24816	ENU08611	ANI61C8314: 2724..2023			GTBX	AFUc21917				5.4E-31			
24817	ENU08612	ANI61C9048: 61..1497			GTBX	"AFUc14050, FGRc03000"				"1.3e-98, 3.4e-28"			
24818	ENU08613	ANI61C751:4 20..749			GTBX	AFUc06278				1.4E-42			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24819	ENU08614	ANI61C758:4 029..103			GTBX	"AFUc05783, AFUc05961, AFUc12204, AFUc12677, CALc06075, FGRc11436, FGRc17690"				"2.5e-72, 1.5e-27, 6.6e-196, 7.1e-126, 8.6e-128, 3.7e-75, 2.9e-35" "5.8e-26, 1.3e-23"			
24820	ENU08615	ANI61C8322: 1663..1077			GTBX	"AFUc04172, FGRc02654"				3.5E-37			
24821	ENU08616	ANI61C8325: 79..477			GTBX	AFUc12859							
24822	ENU08617	ANI61C8326: 860..1122			GTBX	AFUc09750				1.8E-25			
24823	ENU08618	ANI61C8330: 1999..807			GTBX	"AFUc02770, AFUc09905"				"8.7e-69, 1.6e-54"			
24824	ENU08619	ANI61C7605: 1939..1517			GTBX	AFUc09154				4.4E-30			
24825	ENU08620	ANI61C9063: 6060..4119			GTBX	"AFUc13510, AFUc14636, FGRc04398"				"1.4e-81, 1.8e-100, 1.1e-08"			
24826	ENU08621	ANI61C7606: 185..886			GTBX	AFUc09586				1.7E-35			
24827	ENU08622	ANI61C9067: 4043..1889			GTBX	"AFUc09078, AFUc18318, FGRc07495, FGRc07643"				"1.5e-11, 4.3e-09, 6.4e-29, 1.4e-29"			
24828	ENU08623	ANI61C770:7 83..35			GTBX	AFUc01959				1.1E-58			
24829	ENU08624	ANI61C775:4 81..1025			GTBX	"AFUc04122, Y13139"				"7.8e-21, 5.9e-61"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24830	ENU08625	ANI61C8340: 600..1358			GTBX	"AFUc09848, FGRc00517"				"2.6e-41, 1.0e-27"			
24831	ENU08626	ANI61C7615: 53..558			GTBX	AFUc01625				3.5E-52			
24832	ENU08627	ANI61C7616: 3166..2391			GTBX	"AFUc00961, FGRc05631"				"1.7e-25, 5.5e-16"			
24833	ENU08628	ANI61C7617: 1020..82			GTBX	"AFUc13516, CALc04464"				"1.8e-84, 9.5e-47"			
24834	ENU08629	ANI61C7618: 449..192			GTBX	AFUc12936				6.3E-53			
24835	ENU08630	ANI61C9077: 618..241			GTBX	AFUc02355				2.6E-33			
24836	ENU08631	ANI61C8348: 1562..2188			GTBX	AFUc06232				1.9E-58			
24837	ENU08632	ANI61C9078: 2867..1238			GTBX	"CALc05373, FGRc09215, FGRc14791, Y13140"				"1.3e-93, 1.3e-21, 1.1e-43, 9.9e-187"			
24838	ENU08633	ANI61C780:4 46..1			GTBX	"AFUc13983, Y13137"				"2.6e-42, 4.3e-33"			
24839	ENU08634	ANI61C781:6 3..979			GTBX	AFUc10848				5.4E-43			
24840	ENU08635	ANI61C789:4 022..2710			GTBX	"AFUc16570, AFUc17384"				"1.9e-52, 1.0e-67"			
24841	ENU08636	ANI61C8350: 2742..4517			GTBX	CALc06237				2.9E-46			
24842	ENU08637	ANI61C9080: 2749..969			GTBX	"AFUc07425, AFUc19355"				"3.7e-17, 1.2e-21"			

Gene description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24843	ENU08638	ANI61C9082: 251..958			GTBX	AFUc15938				7.9E-64			
24844	ENU08639	ANI61C8354: 1395..895			GTBX	"AFUc12206, Y13140"				"3.9e-65, 1.1e-30"			
24845	ENU08640	ANI61C8355: 551..2115			GTBX	"AFUc01781, AFUc01807, AFUc08308"				"1.4e-08, 1.3e-11, 1.6e-22"			
24846	ENU08641	ANI61C7628: 3..290			GTBX	CALc06163				2.5E-28			
24847	ENU08642	ANI61C792:6 85..317			GTBX	AFUc20257				1.8E-38			
24848	ENU08643	ANI61C794:1 079..852			GTBX	AFUc15667				5.6E-29			
24849	ENU08644	ANI61C797:1 521..2941			GTBX	"AFUc12939, AFUc14002"				"3.4e-18, 2.0e-68"			
24850	ENU08645	ANI61C798:5 48..14			GTBX	"AFUc10758, AFUc10988"				"2.2e-36, 9.8e-13"			
24851	ENU08646	ANI61C7633: 311..964			GTBX	AFUc01337				1.1E-46			
24852	ENU08647	ANI61C8363: 497..1386			GTBX	"AFUc15806, AFUc22456, FGRc02315, Y13136"				"5.9e-50, 3.4e-47, 1.0e-46, 3.3e-44"			
24853	ENU08648	ANI61C9092: 198..1162			GTBX	"AFUc15550, U00092"				"7.9e-30, 1.3e-62"			
24854	ENU08649	ANI61C6908: 658..381			GTBX	AFUc11236				2E-80			
24855	ENU08650	ANI61C6910: 1381..152			GTBX	AFUc11952				5E-68			
24856	ENU08651	ANI61C8372: 870..1638			GTBX	"AFUc09758, CALc05309"				"3.5e-77, 2.4e-13"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24857	ENU08652	ANI61C8375: 3081..370			GTBX	"AFUc05629, AFUc21466"				"2.3e-91, 1.3e-40"			
24858	ENU08653	ANI61C6919: 239..529			GTBX	AFUc14464				3.6E-35			
24859	ENU08654	ANI61C7649: 949..566			GTBX	AFUc18416				3.9E-25			
24860	ENU08655	ANI61C7651: 786..70			GTBX	CALc05557				1.5E-24			
24861	ENU08656	ANI61C6925: 1425..2330			GTBX	"AFUc04661, AFUc22181"				"2.6e-31, 2.0e-36"			
24862	ENU08657	ANI61C6926: 692..1049			GTBX	AFUc01242				1.3E-46			
24863	ENU08658	ANI61C6927: 3535..2135			GTBX	"AFUc03128, AFUc07465"				"1.8e-65, 5.3e-67"			
24864	ENU08659	ANI61C8385: 3004..3390			GTBX	AFUc09509				3.1E-59			
24865	ENU08660	ANI61C6930: 909..328			GTBX	AFUc07723				3.6E-44			
24866	ENU08661	ANI61C6931: 1816..796			GTBX	AFUc03234				1.2E-51			
24867	ENU08662	ANI61C7661: 1..306			GTBX	AFUc08515				5.1E-41			
24868	ENU08663	ANI61C8391: 1166..822			GTBX	"AFUc02256, AFUc08836"				"2.0e-43, 1.1e-20"			
24869	ENU08664	ANI61C7663: 1683..29			GTBX	"AFUc07074, AFUc11027"				"7.7e-34, 4.4e-29"			
24870	ENU08665	ANI61C7664: 620..1668			GTBX	"CALc05819, FGRc11819, FGRc11819"				"2.1e-66, 1.2e-50, 4.0e-37"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24871	ENU08666	ANI61C7665:1405..1690			GTBX	"AFUc20344, FGRc25908"				"3.0e-52, 9.4e-22"			
24872	ENU08667	ANI61C7667:217..764			GTBX	AFUc15868				2.8E-59			
24873	ENU08668	ANI61C7668:546..21			GTBX	AFUc19926				1.1E-48			
24874	ENU08669	ANI61C7669:1362..145			GTBX	"AFUc16122, AFUc18675, CALc06209"				"6.4e-69, 4.8e-37, 4.3e-96"			
24875	ENU08670	ANI61C8398:1256..1657			GTBX	"CALc03932, FGRc14057, FGRc23953"				"4.4e-108, 2.3e-24, 2.2e-44"			
24876	ENU08671	ANI61C6941:2770..1688			GTBX	CALc06022				4E-79			
24877	ENU08672	ANI61C6942:1015..337			GTBX	"AFUc09643, FGRc10423"				"9.0e-22, 6.3e-13"			
24878	ENU08673	ANI61C7672:4149..5074			GTBX	AFUc15338				2.1E-67			
24879	ENU08674	ANI61C7673:2706..3490			GTBX	U00094				4.6e-253			
24880	ENU08675	ANI61C7675:7588..6036			GTBX	"AFUc09612, AFUc18486"				"8.0e-40, 1.4e-39"			
24881	ENU08676	ANI61C6948:514..290			GTBX	AFUc14750				2.7E-34			
24882	ENU08677	ANI61C7689:2240..860			GTBX	AFUc07888				4.6E-109			
24883	ENU08678	ANI61C10:1351..46			GTBX	AFUc04257				9.9E-80			
24884	ENU08679	ANI61C18:28..740			GTBX	AFUc06457				1.5E-24			

Gene Definition

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24885	ENU08680	ANI61C6964:263..6			GTBX	AFUc19698				1.6E-27			
24886	ENU08681	ANI61C7695:1205..3			GTBX	"AFUc14143, FGRc21455"				"2.4e-80, 1.1e-26"			
24887	ENU08682	ANI61C6967:687..361			GTBX	"AFUc15762, AFUc15762"				"1.8e-68, 3.0e-170"			
24888	ENU08683	ANI61C6968:222..943			GTBX	"AFUc08123, CALc05688"				"6.6e-24, 5.1e-87"			
24889	ENU08684	ANI61C6969:1497..1			GTBX	AFUc08629				1.1E-84			
24890	ENU08685	ANI61C21:1021..690			GTBX	"FGRc05811, U00094"				"1.1e-51, 1.2e-97"			
24891	ENU08686	ANI61C24:1302..541			GTBX	AFUc10888				2.2E-38			
24892	ENU08687	ANI61C27:1360..1941			GTBX	CALc04049				5.6E-149			
24893	ENU08688	ANI61C29:1240..77			GTBX	U00094				2.0e-29			
24894	ENU08689	ANI61C6974:1512..1835			GTBX	"AFUc12767, FGRc04567"				"1.8e-09, 1.4e-32"			
24895	ENU08690	ANI61C6976:780..11			GTBX	AFUc20643				5.4E-33			
24896	ENU08691	ANI61C6978:936..477			GTBX	FGRc17293				5E-24			
24897	ENU08692	ANI61C6979:2007..2660			GTBX	AFUc14080				3.3E-22			
24898	ENU08693	ANI61C4002:1132..302			GTBX	AFUc10817				4.7E-59			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24899	ENU08694	ANI61C34:77 8..2349			GTBX	"AFUc10260, FGRc02884, FGRc12117, FGRc19667"				"3.5e-56, 6.5e-48, 5.2e-50, 1.7e-24"			
24900	ENU08695	ANI61C36:77 ..634			GTBX	AFUc00656				4.6E-33			
24901	ENU08696	ANI61C6980: 363..1007			GTBX	Y13135				1.2e-31			
24902	ENU08697	ANI61C6985: 625..5			GTBX	"FGRc11412, FGRc17886"				"4.7e-19, 2.8e-36"			
24903	ENU08698	ANI61C6986: 1531..763			GTBX	AFUc12892				1.2E-52			
24904	ENU08699	ANI61C40:84 1..1771			GTBX	AFUc15961				1.2E-45			
24905	ENU08700	ANI61C46:92 8..116			GTBX	AFUc15151				1.5E-77			
24906	ENU08701	ANI61S645:4 1..428			GTBX	AFUc13524				3.1E-39			
24907	ENU08702	ANI61C6999: 887..135			GTBX	AFUc15217				8E-28			
24908	ENU08703	ANI61C4021: 1037..14			GTBX	AFUc00826				1.7E-28			
24909	ENU08704	ANI61C55:10 16..1329			GTBX	AFUc09449				1.8E-23			
24910	ENU08705	ANI61C61:65 60..4412			GTBX	"AFUc07978, FGRc00983, FGRc23299"				"9.0e-24, 2.0e-21, 2.6e-23"			
24911	ENU08706	ANI61C61:96 64..8595			GTBX	AFUc12810				6.1E-33			
24912	ENU08707	ANI61C4034: 490..254			GTBX	FGRc12892				3.8E-40			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
24913	ENU08708	ANI61C3307: 997..1236			GTBX	AFUc14556				7.7E-33			
24914	ENU08709	ANI61C3309: 3590..1383			GTBX	"AFUc19897, CALc05545, FGRc10593"				"3.7e-34, 9.3e-107, 6.2e-41" 3.8e-13			
24915	ENU08710	ANI61S3148: 132..339			GTBX	U00094							
24916	ENU08711	ANI61C70:15 4..1477			GTBX	AFUc13679				3.1E-42			
24917	ENU08712	ANI61C74:20 41..1277			GTBX	"FGRc02814, FGRc10359, FGRc18356"				"6.6e-59, 2.0e-50, 1.3e-07" 6.4E-117			
24918	ENU08713	ANI61C3315: 1021..1941			GTBX	AFUc14821							
24919	ENU08714	ANI61C3317: 4317..4820			GTBX	AFUc11811				1E-69			
24920	ENU08715	ANI61C4046: 944..2324			GTBX	AFUc09421				3.9E-37			
24921	ENU08716	ANI61C4047: 816..382			GTBX	AFUc02478				2.6E-45			
24922	ENU08717	ANI61C81:39 81..2518			GTBX	AFUc10625				3E-101			
24923	ENU08718	ANI61C3322: 447..49			GTBX	AFUc19143				1.4E-21			
24924	ENU08719	ANI61C3323: 5065..4721			GTBX	AFUc13265				1.3E-49			
24925	ENU08720	ANI61C84:12 67..794			GTBX	CALc05272				2.5E-47			
24926	ENU08721	ANI61C3328: 10..492			GTBX	Y13136				2.9e-49			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
24927	ENU08722	ANI61C3329: 2681..3493			GTBX	"AFUc16245, AFUc18755"				"1.4e-08, 3.6e-21"			
24928	ENU08723	ANI61C2600: 1242..340			GTBX	"AFUc06261, FGRc12448"				"1.0e-73, 4.7e-46"			
24929	ENU08724	ANI61C3330: 816..12			GTBX	AFUc11045				6.1E-47			
24930	ENU08725	ANI61C4065: 192..470			GTBX	FGRc12294				2.6E-23			
24931	ENU08726	ANI61C3337: 2136..49			GTBX	"AFUc06141, AFUc08576, Y13134"				"1.1e-28, 7.3e-84, 1.6e-61"			
24932	ENU08727	ANI61C3338: 1298..395			GTBX	AFUc09204				1.7E-36			
24933	ENU08728	ANI61C2609: 955..215			GTBX	AFUc10760				4.8E-38			
24934	ENU08729	ANI61C98:15 62..599			GTBX	"AFUc07359, AFUc07383, AFUc15393"				"2.9e-35, 2.8e-60, 1.4e-55"			
24935	ENU08730	ANI61C1140 0:738..1813			GTBX	AFUc15950				2.7E-91			
24936	ENU08731	ANI61C1140 4:4363..3848			GTBX	"AFUc05972, AFUc08582"				"4.6e-27, 3.5e-14"			
24937	ENU08732	ANI61S1712: 90..437			GTBX	"AFUc05166, CALc01912"				"7.1e-13, 1.4e-38"			
24938	ENU08733	ANI61S1715: 46..375			GTBX	AFUc07612				6E-30			
24939	ENU08734	ANI61C3342: 3..452			GTBX	AFUc05841				6.7E-35			
24940	ENU08735	ANI61C3342: 1691..763			GTBX	"AFUc18170, Z71256"				"1.4e-15, 5.6e-14"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24941	ENU08736	ANI61C4072: 1036..572			GTBX	AFUc03577				8.2E-78			
24942	ENU08737	ANI61C2615: 427..2074			GTBX	"AFUc19837, Y13138"				"2.6e-44, 1.4e-41"			
24943	ENU08738	ANI61C3344: 172..816			GTBX	FGRc02406				5.1E-25			
24944	ENU08739	ANI61C2616: 820..2283			GTBX	"AFUc05687, AFUc08664, CALc05800, CALc06229"				"1.7e-49, 7.9e-07, 1.9e-35, 8.4e-26"			
24945	ENU08740	ANI61C4074: 249..872			GTBX	"FGRc11944, U00092"				"4.4e-70, 4.4e-36"			
24946	ENU08741	ANI61C4076: 30..557			GTBX	"AFUc13132, FGRc02840"				"6.1e-32, 2.0e-09"			
24947	ENU08742	ANI61C1141 5:2205..964			GTBX	"AFUc09709, AFUc12435"				"1.5e-66, 6.1e-81"			
24948	ENU08743	ANI61C4080: 37..961			GTBX	AFUc07865				6.1E-73			
24949	ENU08744	ANI61C4082: 632..399			GTBX	AFUc11950				1.1E-26			
24950	ENU08745	ANI61C3355: 619..1088			GTBX	AFUc10222				1.5E-54			
24951	ENU08746	ANI61C3356: 976..367			GTBX	AFUc12958				1.1E-81			
24952	ENU08747	ANI61C3358: 4765..6066			GTBX	AFUc15520				3.1E-70			
24953	ENU08748	ANI61C3359: 1074..440			GTBX	AFUc13793				4.5E-78			
24954	ENU08749	ANI61C1142 2:674..66			GTBX	AFUc07909				2.1E-36			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
24955	ENU08750	ANI61C1142 3:748..1			GTBX	AFUc05597				1.8E-83			
24956	ENU08751	ANI61C1142 7:3870..2475			GTBX	"AFUc08441, FGRc23451, Y13140"				"6.1e-07, 4.6e-12, 4.6e-41"			
24957	ENU08752	ANI61C1142 9:1930..573			GTBX	AFUc06257				1.6E-22			
24958	ENU08753	ANI61C2630: 541..105			GTBX	AFUc08424				3.4E-59			
24959	ENU08754	ANI61C2633: 2625..2233			GTBX	AFUc05841				3.1E-54			
24960	ENU08755	ANI61C4093: 333..85			GTBX	AFUc04043				3.8E-27			
24961	ENU08756	ANI61C2636: 1040..489			GTBX	AFUc11267				4.1E-79			
24962	ENU08757	ANI61C1909: 1..484			GTBX	AFUc13018				2.2E-63			
24963	ENU08758	ANI61C4098: 1484..2175			GTBX	"AFUc12633, AFUc13482, CALc05318"				"5.9e-20, 3.8e-68, 1.2e-10"			
24964	ENU08759	ANI61C1070 0:5786..6253			GTBX	AFUc10021				2.9E-39			
24965	ENU08760	ANI61C1143 0:499..1727			GTBX	AFUc11277				1.9E-64			
24966	ENU08761	ANI61C1143 2:3308..3949			GTBX	"AFUc16152, AFUc16297"				"7.7e-15, 4.1e-26"			
24967	ENU08762	ANI61C1070 4:90..2062			GTBX	"AFUc03602, AFUc18530"				"2.2e-36, 4.7e-60"			
24968	ENU08763	ANI61C1143 5:345..1916			GTBX	"AFUc05782, AFUc15229, FGRc13683"				"1.4e- 122, 2.6e-09, 2.4e-37"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
24983	ENU08778	ANI61C1071 3:1728..3141			GTBX	"AFUc05029, FGRc10887"				"1.9e-28, 1.0e-24"			
24984	ENU08779	ANI61C1144 4:4343..5216			GTBX	"AFUc08298, AFUc22104"				"3.9e-17, 1.2e-23"			
24985	ENU08780	ANI61C1071 6:3219..1252			GTBX	"AFUc09877, AFUc11768, FGRc03217"				"6.4e-52, 4.4e-81, 3.6e-26"			
24986	ENU08781	ANI61C2651: 1167..676			GTBX	AFUc06429				1.4E-47			
24987	ENU08782	ANI61C2653: 670..338			GTBX	FGRc07112				4.2E-45			
24988	ENU08783	ANI61C2654: 823..1444			GTBX	Y13138				2.9e-38			
24989	ENU08784	ANI61C2656: 2061..2360			GTBX	FGRc02646				6.5E-25			
24990	ENU08785	ANI61C1928: 1654..734			GTBX	AFUc12945				5.9E-109			
24991	ENU08786	ANI61C3388: 954..17			GTBX	AFUc08509				2.9E-47			
24992	ENU08787	ANI61C1072 0:565..84			GTBX	AFUc06323				6.2E-26			
24993	ENU08788	ANI61C1072 1:2272..1494			GTBX	AFUc12398				7.6E-75			
24994	ENU08789	ANI61C1072 2:562..1611			GTBX	"AFUc15498, AFUc18421"				"4.6e- 113, 7.1e-50"			
24995	ENU08790	ANI61S1767: 76..593			GTBX	AFUc10191				9.3E-93			
24996	ENU08791	ANI61C1930: 1036..686			GTBX	CALc06119				1.1E-69			

Gene3D Conserved

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
24997	ENU08792	ANI61C1931: 353..729			GTBX	AFUc14831				3.1E-80			
24998	ENU08793	ANI61C2660: 1115..1436			GTBX	"AFUc12566, AFUc14338"				"7.5e-40, 3.9e-35"			
24999	ENU08794	ANI61C1933: 1613..1178			GTBX	AFUc07117				3.2E-66			
25000	ENU08795	ANI61C3397: 3091..1810			GTBX	"AFUc11193, AFUc11193, FGRc03055"				"1.4e-43, 1.4e-59, 8.1e-12"			
25001	ENU08796	ANI61C1073 7:1325..2336			GTBX	"AFUc18885, CALc04126, Y13140"				"3.5e-44, 1.8e-25, 9.6e-35"			
25002	ENU08797	ANI61C1146 7:385..858			GTBX	AFUc19804				3.5E-37			
25003	ENU08798	ANI61C1146 7:2860..1414			GTBX	"AFUc09725, CALc06090"				"7.7e-53, 2.6e-08"			
25004	ENU08799	ANI61C1941: 105..1823			GTBX	"CALc05195, FGRc16068, Y13138"				"2.7e-31, 1.7e-37, 2.1e-97"			
25005	ENU08800	ANI61C2670: 1338..683			GTBX	"AFUc08344, FGRc03704"				"2.7e-31, 3.7e-101"			
25006	ENU08801	ANI61C1943: 20..484			GTBX	AFUc11732				1.9E-76			
25007	ENU08802	ANI61C2673: 769..30			GTBX	"AFUc13809, CALc05583"				"3.6e-71, 1.4e-64"			
25008	ENU08803	ANI61C1946: 647..3			GTBX	FGRc10049				8.7E-42			
25009	ENU08804	ANI61C2676: 1204..362			GTBX	AFUc13919				6.5E-148			
25010	ENU08805	ANI61C2679: 1853..2069			GTBX	Y13138				2.4e-23			

Genomic Organization

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25011	ENU08806	ANI61C1074 0:919..22			GTBX	"AFUc10091, FGRc03364"				"2.7e-56, 2.1e-23"			
25012	ENU08807	ANI61C1074 1:1607..918			GTBX	AFUc14682				1.9E-80			
25013	ENU08808	ANI61C1147 1:2164..1046			GTBX	AFUc03516				1E-25			
25014	ENU08809	ANI61C1074 2:1908..2430			GTBX	AFUc06521				1.9E-43			
25015	ENU08810	ANI61C1147 8:1292..2764			GTBX	AFUc14969				6.3E-198			
25016	ENU08811	ANI61C1952: 2185..3687			GTBX	"AFUc14718, FGRc15556"				"4.9e- 131, 9.1e-41" 8.4E-87			
25017	ENU08812	ANI61C1957: 1467..1747			GTBX	AFUc14883				1E-44			
25018	ENU08813	ANI61C1075 0:1589..2369			GTBX	AFUc14574				4.6E-32			
25019	ENU08814	ANI61C1148 1:482..35			GTBX	AFUc11691				1.5E-24			
25020	ENU08815	ANI61C1075 3:141..476			GTBX	AFUc15229				1.8E-26			
25021	ENU08816	ANI61C1960: 1871..1443			GTBX	AFUc04303				2.8E-128			
25022	ENU08817	ANI61C2692: 3428..2316			GTBX	AFUc09746				1.8E-45			
25023	ENU08818	ANI61C2693: 449..95			GTBX	AFUc13804				"6.5e-27, 4.2e-61"			
25024	ENU08819	ANI61C2698: 745..259			GTBX	"AFUc07690, AFUc12854"							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25025	ENU08820	ANI61C2698:1594..988			GTBX	"AFUc09690, AFUc12854, FGRc07517"				"2.8e-25, 4.2e-61, 1.6e-18"			
25026	ENU08821	ANI61C1076 4:709..109			GTBX	"CALc05408, FGRc05636"				"2.6e-24, 2.2e-25"			
25027	ENU08822	ANI61C1076 7:2475..3500			GTBX	AFUc11524				3.5E-85			
25028	ENU08823	ANI61C1972:1158..691			GTBX	ZA7047				8.1e-21			
25029	ENU08824	ANI61C1973:128..544			GTBX	AFUc15874				8.6E-34			
25030	ENU08825	ANI61C1974:196..552			GTBX	AFUc14463				2.7E-47			
25031	ENU08826	ANI61C1975:2720..6			GTBX	"AFUc11768, AFUc14088, AFUc14691, FGRc19856"				"1.2e-72, 7.4e-92, 9.9e-72, 1.3e-13"			
25032	ENU08827	ANI61C807:104..363			GTBX	FGRc08860				1.3E-23			
25033	ENU08828	ANI61C809:397..740			GTBX	AFUc15761				9.8E-56			
25034	ENU08829	ANI61C1077 6:4764..5669			GTBX	AFUc14848				2.3E-87			
25035	ENU08830	ANI61C9100:1569..543			GTBX	AFUc10383				4.6E-54			
25036	ENU08831	ANI61C9104:5043..5687			GTBX	"AFUc03688, FGRc07492"				"9.0e-27, 1.5e-26"			
25037	ENU08832	ANI61C9105:1952..601			GTBX	AFUc05381				3.2E-57			
25038	ENU08833	ANI61C9107:3660..5664			GTBX	"AFUc13126, FGRc07962"				"5.8e-55, 5.9e-42"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
25039	ENU08834	ANI61C818:3 256..2912			GTBX	FGRc24873				4.6E-41			
25040	ENU08835	ANI61C1078 8:1519..49			GTBX	FGRc09740				3.1E-28			
25041	ENU08836	ANI61C1078 9:1896..1027			GTBX	AFUc13090				3.1E-114			
25042	ENU08837	ANI61C9112: 2215..3174			GTBX	AFUc05724				7.5E-81			
25043	ENU08838	ANI61C9112: 4794..3825			GTBX	AFUc12748				1.9E-60			
25044	ENU08839	ANI61C9117: 4650..5342			GTBX	AFUc22177				4.9E-54			
25045	ENU08840	ANI61C9118: 2481..4081			GTBX	"AFUc05152, AFUc06401"				"3.3e-67, 4.0e-15"			
25046	ENU08841	ANI61C822:9 78..138			GTBX	AFUc05328				2.1E-37			
25047	ENU08842	ANI61C826:4 55..1470			GTBX	"AFUc06686, AFUc11073"				"1.3e-44, 1.5e-19"			
25048	ENU08843	ANI61C827:1 030..74			GTBX	"AFUc12162, AFUc19854"				"2.2e-62, 5.0e-45"			
25049	ENU08844	ANI61C828:2 324..2715			GTBX	AFUc02177				1.4E-38			
25050	ENU08845	ANI61C1079 2:295..726			GTBX	"AFUc03882, FGRc06121"				"1.9e-40, 7.0e-35"			
25051	ENU08846	ANI61C1079 6:1764..38			GTBX	"AFUc04821, Y13138"				"4.2e- 100, 7.6e- 120"			
25052	ENU08847	ANI61C9125: 1139..627			GTBX	AFUc12750				2E-36			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25053	ENU08848	ANI61C836:8 95..335			GTBX	"AFUc14883, AFUc14883"				"5.8e-46, 7.5e-53"			
25054	ENU08849	ANI61C837:4 1..566			GTBX	AFUc20588				3.6E-38			
25055	ENU08850	ANI61C8403: 2265..1942			GTBX	AFUc08360				7.3E-22			
25056	ENU08851	ANI61C8406: 3383..1653			GTBX	"AFUc12104, AFUc15297, Y13135"				"4.0e-62, 3.7e-23, 3.0e-46"			
25057	ENU08852	ANI61C9136: 666..908			GTBX	AFUc13948				5.9E-32			
25058	ENU08853	ANI61C8407: 2066..705			GTBX	"AFUc13751, AFUc13751"				"3.4e- 186, 6.1e- 210"			
25059	ENU08854	ANI61C848:1 328..2315			GTBX	AFUc08609				1.7E-86			
25060	ENU08855	ANI61C8411: 739..2328			GTBX	"CALc05880, D50617"				"3.4e-96, 2.2e-48"			
25061	ENU08856	ANI61C8413: 1811..1191			GTBX	"AFUc07925, Y13139"				"1.6e- 105, 2.0e-95"			
25062	ENU08857	ANI61C8414: 79..1278			GTBX	"AFUc01427, FGRc11796"				"1.1e-07, 3.1e-73"			
25063	ENU08858	ANI61C8418: 1559..1860			GTBX	AFUc13723				3.3E-33			
25064	ENU08859	ANI61C8419: 1451..2381			GTBX	"AFUc08249, FGRc12401"				"2.7e- 159, 1.8e-23"			
25065	ENU08860	ANI61C9149: 2758..2324			GTBX	AFUc02271				1.4E-50			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25066	ENU08861	ANI61C851:1 029..1701			GTBX	FGRc06929				3.6E-28			
25067	ENU08862	ANI61C853:7 64..1566			GTBX	AFUc12396				9.4E-77			
25068	ENU08863	ANI61C855:7 0..519			GTBX	"AFUc12828, FGRc08325"				"2.8e-34, 1.4e-22"			
25069	ENU08864	ANI61C857:2 364..1240			GTBX	AFUc21112				4.9E-55			
25070	ENU08865	ANI61C9154: 1083..30			GTBX	AFUc10496				1.8E-45			
25071	ENU08866	ANI61C8429: 1639..1370			GTBX	AFUc09889				1.4E-68			
25072	ENU08867	ANI61C867:9 93..1			GTBX	Y13135				2.2e-20			
25073	ENU08868	ANI61C7703: 1506..530			GTBX	"AFUc11864, AFUc13604, AFUc15296"				"4.3e-21, 7.0e-54, 4.0e-20"			
25074	ENU08869	ANI61C7704: 1011..306			GTBX	FGRc20146				3.6E-34			
25075	ENU08870	ANI61C8433: 3..374			GTBX	AFUc14422				1.3E-50			
25076	ENU08871	ANI61C8436: 1397..1989			GTBX	AFUc12944				1.3E-83			
25077	ENU08872	ANI61C7709: 812..115			GTBX	FGRc12224				1.6E-70			
25078	ENU08873	ANI61C875:2 057..1446			GTBX	Y13135				6.9e-17			
25079	ENU08874	ANI61C8441: 1416..541			GTBX	FGRc12904				2.8E-24			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25080	ENU08875	ANI61C7714: 1136..2228			GTBX	"FGRc06342, FGRc14811"				"8.4e-13, 6.0e-22"			
25081	ENU08876	ANI61C8446: 620..29			GTBX	"AFUc11909, FGRc12199"				"3.5e-19, 7.9e-38"			
25082	ENU08877	ANI61C7717: 1113..1711			GTBX	AFUc07025				3.2E-41			
25083	ENU08878	ANI61C7717: 5981..5119			GTBX	"AFUc16351, FGRc04611"				"4.4e-23, 7.7e-20"			
25084	ENU08879	ANI61C9179: 3890..5546			GTBX	"AFUc13046, AFUc22205"				"7.7e-96, 9.1e-37"			
25085	ENU08880	ANI61C886:5 224..3674			GTBX	"AFUc04165, AFUc14221"				"5.2e-09, 9.9e-39"			
25086	ENU08881	ANI61C888:4 222..3713			GTBX	AFUc20805				2.2E-28			
25087	ENU08882	ANI61C7721: 563..1320			GTBX	"AFUc12977, AFUc14414"				"6.6e-33, 6.6e-17"			
25088	ENU08883	ANI61C7724: 45..794			GTBX	AFUc10173				3.6E-116			
25089	ENU08884	ANI61C8456: 2127..40			GTBX	"AFUc09795, Z71256"				"7.6e-59, 6.7e-212"			
25090	ENU08885	ANI61C9189: 1464..940			GTBX	AFUc00837				8.5E-38			
25091	ENU08886	ANI61C894:1 514..653			GTBX	AFUc15628				4.7E-69			
25092	ENU08887	ANI61C9190: 1512..525			GTBX	"FGRc00983, FGRc26079"				"3.9e-44, 5.8e-18"			
25093	ENU08888	ANI61C8463: 815..1153			GTBX	AFUc11295				5.4E-117			

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25094	ENU08889	ANI61C7735: 367..666			GTBX	AFUc12028				5.3E-40			
25095	ENU08890	ANI61C7736: 25..516			GTBX	FGRc25728				4.5E-41			
25096	ENU08891	ANI61C9196: 509..1774			GTBX	"AFUc05790, AFUc13990, FGRc15154"				"2.0e-29, 1.8e-29, 3.4e-25"			
25097	ENU08892	ANI61C7739: 947..600			GTBX	FGRc14654				2.7E-22			
25098	ENU08893	ANI61C9198: 816..496			GTBX	AFUc09614				2.3E-27			
25099	ENU08894	ANI61C8469: 1100..398			GTBX	"AFUc18110, FGRc17629"				"3.2e-58, 3.5e-11"			
25100	ENU08895	ANI61C8470: 1108..629			GTBX	AFUc02394				1.1E-22			
25101	ENU08896	ANI61C7741: 2522..4541			GTBX	"AFUc13489, AFUc17708, CALc05924"				"1.9e-19, 1.5e-38, 6.9e-239"			
25102	ENU08897	ANI61C8475: 731..1763			GTBX	AFUc21062				3.5E-43			
25103	ENU08898	ANI61C7756: 1266..573			GTBX	"CALc05253, FGRc26927"				"7.8e-60, 1.4e-15"			
25104	ENU08899	ANI61C8486: 2739..3881			GTBX	"AFUc12062, AFUc14671"				"1.9e-102, 3.9e-98"			
25105	ENU08900	ANI61C8487: 2372..427			GTBX	AFUc15656				1.1E-244			
25106	ENU08901	ANI61C7759: 141..404			GTBX	CALc04035				1.6E-33			

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25107	ENU08902	ANI61C8490: 171..1778			GTBX	"CALc05635, FGRc06214, FGRc20613"				"9.5e-66, 4.0e-20, 9.4e-68"			
25108	ENU08903	ANI61C7762: 584..1			GTBX	AFUc10277				6E-91			
25109	ENU08904	ANI61C7765: 763..57			GTBX	Z71256				7.6e-26			
25110	ENU08905	ANI61C7766: 86..706			GTBX	AFUc02641				2.8E-22			
25111	ENU08906	ANI61C7767: 4855..4230			GTBX	AFUc21500				2.9E-46			
25112	ENU08907	ANI61C7768: 3372..3915			GTBX	AFUc15315				1.9E-112			
25113	ENU08908	ANI61C7770: 989..79			GTBX	AFUc03608				4.9E-58			
25114	ENU08909	ANI61S14:61 8..264			GTBX	"FGRc00672, FGRc09713"				"9.2e-07, 2.9e-37"			
25115	ENU08910	ANI61C7771: 4802..3214			GTBX	"AFUc01209, AFUc05079"				"4.0e-28, 3.9e-16"			
25116	ENU08911	ANI61C7773: 503..1698			GTBX	"AFUc02171, FGRc00650"				"3.1e-32, 3.4e-14"			
25117	ENU08912	ANI61C7774: 3657..2305			GTBX	AFUc01162				5.6E-121			
25118	ENU08913	ANI61C7777: 1063..1767			GTBX	"AFUc05844, FGRc12412"				"8.7e-74, 4.4e-30"			
25119	ENU08914	ANI61C7786: 232..921			GTBX	AFUc05158				3.6E-50			
25120	ENU08915	ANI61C7789: 735..1117			GTBX	AFUc14811				7.1E-29			

Gene Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25121	ENU08916	ANI61S719:4 58..168			GTBX	AFUc05321				1E-29			
25122	ENU08917	ANI61C7792: 207..1448			GTBX	"AFUc15949, FGRc07097"				"3.3e-38, 7.1e-24"			
25123	ENU08918	ANI61C4102: 1585..1031			GTBX	AFUc14601				9.8E-63			
25124	ENU08919	ANI61C4103: 891..301			GTBX	"AFUc02035, AFUc18244, FGRc16341"				"6.8e-16, 6.3e-49, 1.0e-12"			
25125	ENU08920	ANI61C4106: 888..1172			GTBX	AFUc12497				6.4E-29			
25126	ENU08921	ANI61C4107: 3073..4246			GTBX	"AFUc03644, AFUc03949, AFUc07144"				"2.3e-51, 1.8e-29, 3.7e-22"			
25127	ENU08922	ANI61C4107: 6848..4563			GTBX	"AFUc10284, AFUc16568, FGRc23371"				"3.4e-124, 1.8e-25, 4.3e-10"			
25128	ENU08923	ANI61C4108: 1056..2837			GTBX	"AFUc05077, AFUc15554, FGRc08841"				"2.6e-43, 5.2e-121, 4.0e-59"			
25129	ENU08924	ANI61S51:11. .352			GTBX	AFUc09974				4.7E-50			
25130	ENU08925	ANI61C4116: 565..195			GTBX	"AFUc14805, AFUc20877"				"6.4e-36, 4.6e-38"			
25131	ENU08926	ANI61C4119: 741..313			GTBX	AFUc06070				1E-39			
25132	ENU08927	ANI61C4124: 2482..2991			GTBX	AFUc11634				4.7E-39			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
25146	ENU08941	ANI61C4154:750..427			GTBX	FGRc08165							
25147	ENU08942	ANI61C3426:799..1035			GTBX	AFUc14425				1.2E-32			
25148	ENU08943	ANI61C4156:811..158			GTBX	AFUc01911				2.8E-33			
25149	ENU08944	ANI61C4164:1102..2126			GTBX	"AFUc07502, CALc06043"				"2.2e-72, 2.1e-26"			
25150	ENU08945	ANI61C4165:2879..2147			GTBX	AFUc05660				5.7E-114			
25151	ENU08946	ANI61C3439:1918..547			GTBX	AFUc08088				3.6E-86			
25152	ENU08947	ANI61S798:2..358			GTBX	AFUc06449				3.1E-21			
25153	ENU08948	ANI61S3272:1..396			GTBX	AFUc06662				1.4E-68			
25154	ENU08949	ANI61C3442:978..2365			GTBX	"AFUc15654, AFUc15654"				"3.4e-148, 5.7e-208"			
25155	ENU08950	ANI61C3444:1126..196			GTBX	AFUc04760				3.1E-33			
25156	ENU08951	ANI61C4177:622..1022			GTBX	AFUc06724				4.5E-52			
25157	ENU08952	ANI61C2723:2..913			GTBX	AFUc15132				8.6E-70			
25158	ENU08953	ANI61C2724:875..213			GTBX	AFUc15688				7.1E-95			
25159	ENU08954	ANI61C2726:574..30			GTBX	CALc05920				1.4E-46			

Gene Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25160	ENU08955	ANI61C4187: 379..1145			GTBX	AFUc14608				1.2E-83			
25161	ENU08956	ANI61C3458: 1001..567			GTBX	AFUc10128				4.9E-42			
25162	ENU08957	ANI61C3459: 669..199			GTBX	AFUc12576				4.2E-60			
25163	ENU08958	ANI61S1831: 532..19			GTBX	FGRc00578				1.1E-29			
25164	ENU08959	ANI61S1834: 390..665			GTBX	AFUc11038				1.9E-63			
25165	ENU08960	ANI61S2569: 41..484			GTBX	FGRc24279				2.8E-35			
25166	ENU08961	ANI61C3460: 1017..1299			GTBX	AFUc13761				2E-109			
25167	ENU08962	ANI61C3461: 849..64			GTBX	"AFUc00703, AFUc13932"				"1.6e-11, 2.8e-64"			
25168	ENU08963	ANI61C4191: 1298..198			GTBX	AFUc07701				6.1E-56			
25169	ENU08964	ANI61C4195: 1387..1874			GTBX	AFUc11252				5.6E-91			
25170	ENU08965	ANI61C2738: 853..278			GTBX	"FGRc06990, Z71257"				"6.1e-15, 1.5e-33"			
25171	ENU08966	ANI61C4198: 582..151			GTBX	AFUc01658				6.5E-35			
25172	ENU08967	ANI61C1080 6:191..656			GTBX	"AFUc07431, AFUc13621"				"9.6e-15, 1.4e-57"			
25173	ENU08968	ANI61C1080 7:5457..6306			GTBX	"AFUc01138, CALc03518"				"3.6e-08, 3.8e-33"			

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25174	ENU08969	ANI61C3470: 1388..1606			GTBX	AFUc07764				9.6E-105			
25175	ENU08970	ANI61C3473: 772..392			GTBX	AFUc18497				6.7E-24			
25176	ENU08971	ANI61C3475: 3209..3995			GTBX	AFUc05872				9.5E-50			
25177	ENU08972	ANI61C2747: 43..471			GTBX	AFUc14390				2.1E-34			
25178	ENU08973	ANI61C1081 2:1544..3776			GTBX	"AFUc13531, AFUc14233, AFUc14327, AFUc14338"				"3.9e-29, 2.4e-31, 9.0e-57, 3.8e-50"			
25179	ENU08974	ANI61C1081 4:545..141			GTBX	"AFUc09407, FGRC11267"				"3.5e-23, 4.1e-07"			
25180	ENU08975	ANI61S1855: 51..573			GTBX	AFUc14395				7.2E-32			
25181	ENU08976	ANI61C2753: 713..1036			GTBX	AFUc12177				4.6E-28			
25182	ENU08977	ANI61C3482: 1159..1505			GTBX	"AFUc08947, Y13137"				"3.6e-76, 2.1e-44"			
25183	ENU08978	ANI61C2754: 1..520			GTBX	AFUc11200				1.1E-29			
25184	ENU08979	ANI61C3487: 334..1136			GTBX	AFUc21091				1.2E-22			
25185	ENU08980	ANI61C2758: 96..608			GTBX	FGRC12220				7.4E-48			
25186	ENU08981	ANI61C2763: 1297..582			GTBX	"AFUc13692, AFUc13754"				"5.8e-77, 4.6e-43"			
25187	ENU08982	ANI61C3497: 38..559			GTBX	FGRC10471				6.1E-74			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25188	ENU08983	ANI61C1083 6:2079..834			GTBX	"AFUc14311, AFUc22325"				"1.8e-106, 1.3e-30" 8.8E-23			
25189	ENU08984	ANI61C2777: 249..27			GTBX	AFUc09165							
25190	ENU08985	ANI61C1084 2:263..21			GTBX	AFUc15294				1.5E-26			
25191	ENU08986	ANI61C1084 6:2234..3543			GTBX	"AFUc14245, CALc05322, Y13140"				"9.0e-161, 5.3e-60, 5.3e-108" "8.3e-21, 1.3e-24" 4.5E-54			
25192	ENU08987	ANI61C1084 8:416..3			GTBX	"AFUc21087, CALc06090"							
25193	ENU08988	ANI61C1084 9:3548..4105			GTBX	AFUc10042							
25194	ENU08989	ANI61C2783: 1271..2181			GTBX	AFUc08854				1.3E-97			
25195	ENU08990	ANI61C2791: 906..498			GTBX	AFUc14237				2.6E-38			
25196	ENU08991	ANI61C2792: 876..36			GTBX	AFUc16118				1.2E-34			
25197	ENU08992	ANI61C2794: 1584..1084			GTBX	AFUc13519				5.2E-35			
25198	ENU08993	ANI61C2799: 1320..1669			GTBX	AFUc14105				2.7E-43			
25199	ENU08994	ANI61C1086 2:1103..489			GTBX	AFUc13456				5.7E-82			
25200	ENU08995	ANI61C1086 9:1089..200			GTBX	"AFUc12779, AFUc12779"				"1.0e-29, 1.0e-37"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25201	ENU08996	ANI61C1087 2:2004..2818			GTBX	"CALc05217, Y13138"				"1.9e-159, 5.5e-211"			
25202	ENU08997	ANI61C1087 3:1155..2865			GTBX	"CALc03654, X59720"				"1.5e-46, 2.0e-50"			
25203	ENU08998	ANI61C1087 4:3565..4204			GTBX	AFUc15811				1.1E-83			
25204	ENU08999	ANI61C1087 5:82..2501			GTBX	"AFUc04817, AFUc21485, FGRc09205"				"1.9e-69, 7.3e-13, 3.3e-22"			
25205	ENU09000	ANI61C9200: 1423..2081			GTBX	AFUc15632				1.4E-33			
25206	ENU09001	ANI61C9201: 617..383			GTBX	AFUc08928				7.5E-42			
25207	ENU09002	ANI61C9203: 4520..63			GTBX	"AFUc09601, AFUc13531, AFUc15132, AFUc19875"				"1.1e-32, 4.6e-40, 5.1e-48, 1.4e-22"			
25208	ENU09003	ANI61C9206: 770..81			GTBX	AFUc08110				1E-27			
25209	ENU09004	ANI61C9207: 3570..1397			GTBX	"AFUc15140, AFUc15140, AFUc19221"				"1.7e-141, 2.8e-29, 4.6e-48"			
25210	ENU09005	ANI61C914:4 504..3529			GTBX	"AFUc09101, CALc01241, FGRc07803"				"9.2e-51, 2.8e-29, 2.3e-25"			
25211	ENU09006	ANI61C918:1 53..1052			GTBX	AFUc11011				6.2E-58			
25212	ENU09007	ANI61C9211: 2395..3456			GTBX	"AFUc14615, AFUc22530"				"3.1e-51, 9.2e-42"			
25213	ENU09008	ANI61C9215: 1494..1788			GTBX	AFUc00720				9.1E-26			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	% Description
25214	ENU09009	ANI61C9216: 2755..1219			GTBX	"AFUc14313, AFUc14313"				"1.1e-160, 1.6e-157"			
25215	ENU09010	ANI61C923:6 85..239			GTBX	FGRc06929				5.2E-27			
25216	ENU09011	ANI61C1089 2:2598..1435			GTBX	"AFUc03032, AFUc05892, Y13140"				"4.4e-43, 5.3e-16, 5.4e-18"			
25217	ENU09012	ANI61C9227: 49..1215			GTBX	"AFUc09616, FGRc06065"				"3.1e-106, 5.0e-45"			
25218	ENU09013	ANI61C9229: 44..629			GTBX	AFUc20770				1.3E-32			
25219	ENU09014	ANI61C931:4 332..1795			GTBX	"AFUc06172, AFUc06611"				"6.7e-29, 3.0e-41"			
25220	ENU09015	ANI61C8503: 4176..4553			GTBX	FGRc01667				2.7E-21			
25221	ENU09016	ANI61C8508: 1008..2044			GTBX	"AFUc11315, CALc04402"				"7.7e-85, 4.4e-53"			
25222	ENU09017	ANI61C9237: 282..2495			GTBX	Y13134				8.0e-80			
25223	ENU09018	ANI61C948:1 06..598			GTBX	AFUc19097				3.3E-34			
25224	ENU09019	ANI61C9240: 1748..61			GTBX	"AFUc15932, AFUc15932"				"2.9e-38, 3.7e-47"			
25225	ENU09020	ANI61C8511: 892..413			GTBX	AFUc13528				8E-52			
25226	ENU09021	ANI61C8517: 556..35			GTBX	FGRc00709				6.1E-30			
25227	ENU09022	ANI61C9247: 2593..1793			GTBX	AFUc01187				2.4E-29			

Table 6. Contigs

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25228	ENU09023	ANI61C8519:1036..209			GTBX	AFUc11611				6E-54			
25229	ENU09024	ANI61C953:912..1			GTBX	AFUc13929				4.2E-68			
25230	ENU09025	ANI61C957:22..627			GTBX	AFUc14610				1.8E-80			
25231	ENU09026	ANI61C8522:2171..1635			GTBX	AFUc02919				2.5E-49			
25232	ENU09027	ANI61C9253:2222..3333			GTBX	"AFUc05780, FGRc20446"				"1.4e-15, 3.6e-23"			
25233	ENU09028	ANI61C8526:841..65			GTBX	"AFUc09020, Y13136"				"2.0e-41, 7.5e-31"			
25234	ENU09029	ANI61C8526:4617..5334			GTBX	"AFUc21180, CALc04630"				"4.4e-40, 8.5e-22"			
25235	ENU09030	ANI61C9257:1241..480			GTBX	CALc05995				1.4E-53			
25236	ENU09031	ANI61C8531:3577..3233			GTBX	AFUc07659				2.6E-27			
25237	ENU09032	ANI61C8533:2549..1044			GTBX	AFUc06933				8.6E-41			
25238	ENU09033	ANI61C9265:8351..8701			GTBX	AFUc13733				2.4E-119			
25239	ENU09034	ANI61C7807:752..321			GTBX	AFUc15441				2.4E-34			
25240	ENU09035	ANI61C973:607..278			GTBX	FGRc18829				6.4E-22			
25241	ENU09036	ANI61C975:70..423			GTBX	AFUc04456				3.4E-33			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	nebi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25242	ENU09037	ANI61C976:5	01..755		GTBX	"AFUc08733, AFUc10087"				"1.9e-31, 1.3e-67"			
25243	ENU09038	ANI61C978:7	61..18		GTBX	"AFUc02805, AFUc21089"				"3.5e-45, 8.0e-26"			
25244	ENU09039	ANI61C8542:	2..313		GTBX	AFUc16158				7.5E-31			
25245	ENU09040	ANI61C7814:	2279..2073		GTBX	U00092				2.9e-11			
25246	ENU09041	ANI61C8544:	6230..7238		GTBX	"AFUc02018, AFUc15483, AFUc15778"				"7.4e-51, 9.7e-18, 3.9e-26"			
25247	ENU09042	ANI61C7817:	2093..38		GTBX	"AFUc12368, AFUc15695, AFUc15695"				"2.6e-82, 1.1e-30, 3.1e-12"			
25248	ENU09043	ANI61C8547:	2244..2879		GTBX	"AFUc03289, AFUc12872"				"1.2e-08, 1.9e-31"			
25249	ENU09044	ANI61C7825:	1907..493		GTBX	"AFUc07632, AFUc16753, CALc05461"				"2.4e-80, 3.7e-25, 5.1e-25"			
25250	ENU09045	ANI61C7827:	166..912		GTBX	AFUc15752				3.3E-134			
25251	ENU09046	ANI61C992:2	850..3833		GTBX	"AFUc08206, AFUc13826"				"2.1e-21, 4.5e-77"			
25252	ENU09047	ANI61C8562:	871..199		GTBX	AFUc13633				5E-74			
25253	ENU09048	ANI61C8565:	637..1002		GTBX	FGRc02523				4.8E-30			
25254	ENU09049	ANI61C9295:	1450..440		GTBX	"AFUc08217, FGRc09703"				"1.7e-83, 6.6e-23"			
25255	ENU09050	ANI61C8566:	770..39		GTBX	"AFUc15765, CALc05653"				"8.4e-56, 4.2e-83"			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
25256	ENU09051	ANI61C8568: 1119..68			GTBX	AFUc03216				4.1E-61			
25257	ENU09052	ANI61C9298: 815..18			GTBX	"AFUc14355, AFUc22510"				"5.1e-25, 5.2e-74"			
25258	ENU09053	ANI61C9299: 657..1844			GTBX	"AFUc00708, AFUc09276"				"3.5e-38, 3.5e-49"			
25259	ENU09054	ANI61C7844: 946..392			GTBX	AFUc15765				3.5E-112			
25260	ENU09055	ANI61C8574: 1601..2681			GTBX	"AFUc06883, FGRC14811"				"3.7e-79, 6.3e-13"			
25261	ENU09056	ANI61C7847: 931..2031			GTBX	"AFUc10607, U00094"				"1.6e-61, 1.1e-32"			
25262	ENU09057	ANI61C7849: 4332..4955			GTBX	"AFUc03724, FGRC24839"				"5.3e-29, 1.9e-21"			
25263	ENU09058	ANI61C8580: 10232..10627			GTBX	AFUc06423				8.9E-30			
25264	ENU09059	ANI61C8584: 101..535			GTBX	Y13140				2.3e-12			
25265	ENU09060	ANI61C7855: 2920..4065			GTBX	AFUc12170				1.4E-123			
25266	ENU09061	ANI61C7855: 6507..4837			GTBX	AFUc19366				5.1E-49			
25267	ENU09062	ANI61C7857: 488..1039			GTBX	AFUc02328				5.9E-22			
25268	ENU09063	ANI61C7864: 3045..3936			GTBX	"AFUc03531, AFUc12810"				"3.9e-21, 3.2e-20"			
25269	ENU09064	ANI61C8596: 2092..2			GTBX	"AFUc03147, CALc06221, Z71257"				"1.4e-13, 8.8e-21, 2.0e-143"			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25270	ENU09065	ANI61S4000: 472..6			GTBX	"AFUc15463, Y13135"				"4.6e-32, 9.3e-25"			
25271	ENU09066	ANI61C7872: 891..147			GTBX	AFUc15367				1.3E-32			
25272	ENU09067	ANI61C7875: 4433..500			GTBX	"AFUc05240, AFUc12411, FGRc05490, FGRc06942, FGRc06942, FGRc21802"				"1.8e-11, 8.3e-53, 1.1e-98, 1.5e-15, 2.0e-14, 1.8e-39"			
25273	ENU09068	ANI61C7878: 277..566			GTBX	FGRc14988				1.5E-32			
25274	ENU09069	ANI61C7879: 719..118			GTBX	FGRc09098				1.6E-29			
25275	ENU09070	ANI61C7886: 5..805			GTBX	"AFUc04118, AFUc11270"				"1.6e-44, 2.6e-34"			
25276	ENU09071	ANI61C7892: 1342..1082			GTBX	AFUc02446				1.9E-36			
25277	ENU09072	ANI61C7896: 2170..2465			GTBX	CALc05565				2E-23			
25278	ENU09073	ANI61C7899: 5873..5220			GTBX	CALc02982				1.2E-79			
25279	ENU09074	ANI61C4200: 725..149			GTBX	FGRc08664				5.3E-52			
25280	ENU09075	ANI61C4203: 1767..622			GTBX	"AFUc01235, AFUc07012"				"1.0e-61, 9.5e-19"			
25281	ENU09076	ANI61C4208: 344..15			GTBX	AFUc14843				1.1E-38			
25282	ENU09077	ANI61C4212: 601..8			GTBX	FGRc13621				2.6E-48			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25283	ENU09078	ANI61C4212:1134..2468			GTBX	Y13134				2.1e-68			
25284	ENU09079	ANI61C4216:4911..5121			GTBX	AFUc03988				2.2E-35			
25285	ENU09080	ANI61C4219:2071..864			GTBX	AFUc13992				2.4E-190			
25286	ENU09081	ANI61C4223:1637..692			GTBX	AFUc14306				1.8E-91			
25287	ENU09082	ANI61C4224:191..1741			GTBX	"CALc03890, Y13135"				"4.2e-60, 1.9e-76"			
25288	ENU09083	ANI61C4233:3113..4950			GTBX	"AFUc01615, AFUc12868, AFUc20678, AFUc22517"				"1.0e-31, 2.9e-24, 4.2e-56, 2.5e-13"			
25289	ENU09084	ANI61C4234:1331..1654			GTBX	AFUc03297				2.1E-31			
25290	ENU09085	ANI61C3508:817..356			GTBX	FGRc06621				2.9E-35			
25291	ENU09086	ANI61C3509:1575..16			GTBX	CALc04641				4.5E-178			
25292	ENU09087	ANI61S2616:50..511			GTBX	AFUc06531				6.2E-27			
25293	ENU09088	ANI61C3511:798..19			GTBX	"AFUc06952, AFUc11209, AFUc13557"				"3.5e-13, 2.2e-18, 8.2e-54"			
25294	ENU09089	ANI61S878:19..522			GTBX	FGRc06247				2.1E-46			
25295	ENU09090	ANI61C4254:841..526			GTBX	AFUc14249				2.6E-57			
25296	ENU09091	ANI61C3528:308..516			GTBX	CALc04521				9.2E-30			

Table 6. Blast results

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25297	ENU09092	ANI61C4258: 2516..1242			GTBX	"AFUc12040, CALc05713"				"2.7e-192, 7.8e-37"			
25298	ENU09093	ANI61C4260: 1739..6			GTBX	"AFUc03360, FGRC19992"				"6.2e-57, 1.2e-13"			
25299	ENU09094	ANI61C2802: 1479..234			GTBX	U00094				4.1e-78			
25300	ENU09095	ANI61C3532: 49..627			GTBX	AFUc05925				8.1E-31			
25301	ENU09096	ANI61C2803: 568..68			GTBX	FGRC09627				1E-65			
25302	ENU09097	ANI61C3534: 2422..1935			GTBX	CALc03078				1.9E-32			
25303	ENU09098	ANI61C2806: 969..1276			GTBX	AFUc12155				5.3E-37			
25304	ENU09099	ANI61S898:1 63...579			GTBX	AFUc09587				2.8E-60			
25305	ENU09100	ANI61C3540: 514..302			GTBX	FGRC16169				3.5E-24			
25306	ENU09101	ANI61C4278: 2298..1835			GTBX	FGRC24333				3E-34			
25307	ENU09102	ANI61C4278: 2825..4111			GTBX	"AFUc06051, FGRC18955"				"2.3e-08, 8.1e-33"			
25308	ENU09103	ANI61C4280: 1451..765			GTBX	"AFUc13963, FGRC19878"				"6.5e-20, 1.4e-35"			
25309	ENU09104	ANI61C2825: 1042..103			GTBX	AFUc09268				1.8E-72			
25310	ENU09105	ANI61C4283: 2142..2672			GTBX	AFUc12329				4.3E-48			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25311	ENU09106	ANI61C4285: 2704..4107			GTBX	AFUc07246				3.2E-153			
25312	ENU09107	ANI61C3557: 107..924			GTBX	AFUc13932				2.7E-33			
25313	ENU09108	ANI61C3558: 1507..913			GTBX	"FGRc09765, Y13135"				"7.1e-33, 3.2e-53"			
25314	ENU09109	ANI61C2834: 1324..253			GTBX	"AFUc14023, AFUc18413, FGRc11244"				"2.3e-36, 1.6e-52, 8.8e-07"			
25315	ENU09110	ANI61C3565: 80..1109			GTBX	"AFUc12638, AFUc14019"				"3.6e-94, 1.7e-19"			
25316	ENU09111	ANI61C2836: 842..1150			GTBX	AFUc09693				3.9E-47			
25317	ENU09112	ANI61C4295: 526..2590			GTBX	"AFUc14660, AFUc15941, AFUc15941"				"2.9e-12, 4.1e-55, 6.5e-45"			
25318	ENU09113	ANI61C3569: 22..474			GTBX	AFUc01238				1.1E-22			
25319	ENU09114	ANI61C1090 0:246..490			GTBX	FGRc11747				9.5E-32			
25320	ENU09115	ANI61C1090 1:24..497			GTBX	AFUc13935				3.6E-65			
25321	ENU09116	ANI61C3570: 607..1650			GTBX	"CALc05316, U00094"				"2.9e-10, 1.1e-41"			
25322	ENU09117	ANI61C3578: 68..364			GTBX	AFUc04929				9.7E-23			
25323	ENU09118	ANI61C1091 2:864..129			GTBX	AFUc15752				1.8E-26			
25324	ENU09119	ANI61C1091 6:1704..605			GTBX	AFUc14099				1.1E-29			

Sequence Alignment

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	% Description
25325	ENU09120	ANI61C2852:1722..1			GTBX	"AFUc10454, AFUc14364, CALc03886"				"3.9e-33, 3.7e-94, 6.7e-58"			
25326	ENU09121	ANI61C3582:1760..305			GTBX	AFUc09771				6.3E-23			
25327	ENU09122	ANI61C2856:623..366			GTBX	CALc06129				1.1E-37			
25328	ENU09123	ANI61C3587:576..272			GTBX	AFUc17615				1.5E-30			
25329	ENU09124	ANI61C10927:603..24			GTBX	AFUc14337				8.9E-30			
25330	ENU09125	ANI61S2694:358..12			GTBX	FGRc08083				1.3E-39			
25331	ENU09126	ANI61C2860:743..120			GTBX	FGRc01600				7.9E-57			
25332	ENU09127	ANI61C3590:2212..1250			GTBX	AFUc01539				5.3E-59			
25333	ENU09128	ANI61C2864:234..450			GTBX	FGRc05834				1.2E-23			
25334	ENU09129	ANI61C2866:400..2			GTBX	AFUc06319				6.3E-54			
25335	ENU09130	ANI61C3596:508..8			GTBX	AFUc09790				4.4E-62			
25336	ENU09131	ANI61C10931:1458..1075			GTBX	AFUc09609				1.7E-30			
25337	ENU09132	ANI61C10932:2674..1592			GTBX	"AFUc16521, AFUc16612"				"1.2e-23, 2.8e-09"			
25338	ENU09133	ANI61C10934:2128..413			GTBX	"AFUc16639, FGRc02861, FGRc09286, FGRc11948"				"1.1e-81, 1.6e-60, 1.3e-56, 6.3e-08"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25339	ENU09134	ANI61C1093 7:1836..2395			GTBX	AFUc04964				1.3E-86			
25340	ENU09135	ANI61C1094 6:1623..629			GTBX	"AFUc07110, AFUc18195"				"6.0e-77, 1.6e-11"			
25341	ENU09136	ANI61C2889: 806..204			GTBX	AFUc12218				5.6E-93			
25342	ENU09137	ANI61C1095 4:2579..3314			GTBX	Y13139				1.7e-39			
25343	ENU09138	ANI61C1095 5:532..42			GTBX	AFUc18408				3.1E-33			
25344	ENU09139	ANI61C1095 5:777..2889			GTBX	AFUc13607				5.8E-159			
25345	ENU09140	ANI61C2891: 102..356			GTBX	AFUc07028				4.3E-80			
25346	ENU09141	ANI61C1096 4:14..1231			GTBX	"AFUc11060, AFUc15343"				"3.8e-59, 5.7e-32"			
25347	ENU09142	ANI61C1097 0:2035..312			GTBX	"AFUc12156, AFUc15465, AFUc15465, FGRc00470"				"4.9e-55, 1.5e-10, 2.5e-45, 5.6e-11" 4.3E-55			
25348	ENU09143	ANI61C1097 4:2482..3605			GTBX	AFUc13816							
25349	ENU09144	ANI61C1097 4:9381..10970			GTBX	CALc05781				1.6E-108			
25350	ENU09145	ANI61C1097 5:827..1721			GTBX	AFUc16580				6.4E-29			
25351	ENU09146	ANI61C1097 5:7763..8178			GTBX	FGRc01084				6.3E-41			
25352	ENU09147	ANI61C1097 8:1139..422			GTBX	AFUc10468				8E-37			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25353	ENU09148	ANI61C9302:1377..310			GTBX	"AFUc10685, AFUc15487"				"1.6e-66, 2.6e-15"			
25354	ENU09149	ANI61C9308:3085..3645			GTBX	"AFUc01566, AFUc02071"				"7.9e-38, 2.7e-18"			
25355	ENU09150	ANI61C1098 0:35..700			GTBX	AFUc04598				2.2E-28			
25356	ENU09151	ANI61C1098 1:7354..7898			GTBX	AFUc08664				2.4E-33			
25357	ENU09152	ANI61C1098 9:720..515			GTBX	AFUc12150				4.4E-39			
25358	ENU09153	ANI61C9317:662..250			GTBX	AFUc13330				1.5E-33			
25359	ENU09154	ANI61C9317:1109..2233			GTBX	"AFUc00802, AFUc20080, CALc06223"				"3.7e-48, 4.2e-14, 4.0e-19"			
25360	ENU09155	ANI61C9318:4746..5269			GTBX	"AFUc07003, AFUc07003, AFUc10141"				"6.6e-111, 7.7e-89, 6.1e-135"			
25361	ENU09156	ANI61C1099 1:621..883			GTBX	U00094				2.1e-49			
25362	ENU09157	ANI61C1099 7:8203..9278			GTBX	"AFUc12472, AFUc14082"				"2.4e-45, 3.0e-56"			
25363	ENU09158	ANI61C1099 9:4895..5915			GTBX	FGRc21400				1.6E-28			
25364	ENU09159	ANI61C9322:484..1044			GTBX	AFUc15756				6.7E-26			
25365	ENU09160	ANI61C9325:1369..280			GTBX	"AFUc11534, AFUc18844, CALc03970"				"8.0e-103, 1.6e-37, 5.1e-62"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25366	ENU09161	ANI61C8601: 282..17			GTBX	AFUc08235				4.1E-30			
25367	ENU09162	ANI61C9331: 1071..388			GTBX	AFUc13604				2.3E-35			
25368	ENU09163	ANI61C9332: 444..5			GTBX	"AFUc10065, FGRc19031"				"1.5e-30, 2.9e-12"			
25369	ENU09164	ANI61C8605: 420..208			GTBX	AFUc06416				5.3E-44			
25370	ENU09165	ANI61C9338: 2923..37			GTBX	"AFUc09246, AFUc11804, CALc06165, FGRc18522"				"3.8e-35, 2.2e-225, 2.0e-183, 6.1e-37"			
25371	ENU09166	ANI61C8612: 16..372			GTBX	AFUc09632				1.1E-45			
25372	ENU09167	ANI61C8612: 2351..879			GTBX	"AFUc06058, AFUc09335"				"7.6e-07, 3.0e-80"			
25373	ENU09168	ANI61C9342: 2713..2181			GTBX	AFUc08063				5.5E-104			
25374	ENU09169	ANI61C8614: 2981..15			GTBX	"AFUc15297, FGRc05338, FGRc25875"				"3.0e-73, 7.9e-24, 7.7e-11"			
25375	ENU09170	ANI61C9344: 4379..4882			GTBX	AFUc11946				4.1E-23			
25376	ENU09171	ANI61C8619: 3798..2506			GTBX	AFUc12001				8.5E-46			
25377	ENU09172	ANI61C8620: 1357..303			GTBX	"AFUc12034, CALc05986"				"2.6e-24, 3.2e-86"			
25378	ENU09173	ANI61C8620: 5794..6098			GTBX	AFUc14066				1.3E-110			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25379	ENU09174	ANI61C9355: 1253..680			GTBX	AFUc15687				9.2E-108			
25380	ENU09175	ANI61C8628: 36..656			GTBX	AFUc06137				2.8E-77			
25381	ENU09176	ANI61C9357: 137..1530			GTBX	AFUc09529				2.2E-49			
25382	ENU09177	ANI61C7900: 2532..4277			GTBX	"AFUc08848, AFUc09907, AFUc20452"				"7.5e-39, 2.4e-73, 1.6e-11"			
25383	ENU09178	ANI61C8631: 1103..2171			GTBX	AFUc19468				7.7E-45			
25384	ENU09179	ANI61C8631: 4111..2590			GTBX	"AFUc08405, AFUc16754, FGRC14352, Z71257"				"1.2e-107, 1.3e-33, 1.3e-37, 2.5e-81"			
25385	ENU09180	ANI61C9363: 2758..3087			GTBX	AFUc22414				1E-31			
25386	ENU09181	ANI61C8636: 895..300			GTBX	"AFUc01391, FGRC18380"				"3.0e-11, 2.2e-37"			
25387	ENU09182	ANI61C8638: 1064..405			GTBX	AFUc10092				1.3E-25			
25388	ENU09183	ANI61C9371: 1504..552			GTBX	AFUc12786				5.8E-50			
25389	ENU09184	ANI61C8645: 1124..1467			GTBX	AFUc11981				4.8E-31			
25390	ENU09185	ANI61C7918: 301..11			GTBX	AFUc01678				1.6E-27			
25391	ENU09186	ANI61C7918: 1104..1421			GTBX	AFUc14675				1.4E-28			

Sequence Definition

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25392	ENU09187	ANI61C9377: 493..810			GTBX	"AFUc12614, FGRc18368"				"1.5e-113, 2.6e-07" 1.5E-77			
25393	ENU09188	ANI61C9378: 906..1421			GTBX	AFUc11838							
25394	ENU09189	ANI61C8650: 3512..3901			GTBX	AFUc12134				2.5E-43			
25395	ENU09190	ANI61C7924: 412..8			GTBX	AFUc15732				2.7E-26			
25396	ENU09191	ANI61C8653: 1726..828			GTBX	AFUc13073				1.2E-130			
25397	ENU09192	ANI61C9383: 6530..7124			GTBX	AFUc17773				5.3E-67			
25398	ENU09193	ANI61C8656: 3851..3351			GTBX	AFUc05544				8.9E-73			
25399	ENU09194	ANI61C8657: 133..693			GTBX	AFUc08713				1.9E-58			
25400	ENU09195	ANI61C8659: 2496..3023			GTBX	"AFUc03782, FGRc10049"				"1.0e-18, 4.9e-38"			
25401	ENU09196	ANI61C7930: 659..1267			GTBX	"AFUc05717, AFUc21348"				"6.6e-43, 1.6e-09"			
25402	ENU09197	ANI61C8661: 3313..3669			GTBX	FGRc07994				1.6E-28			
25403	ENU09198	ANI61C8667: 78..575			GTBX	AFUc05732				5.1E-32			
25404	ENU09199	ANI61C9398: 391..77			GTBX	AFUc20294				1.1E-23			
25405	ENU09200	ANI61C7941: 923..25			GTBX	CALc05278				1.2E-32			

Geneious

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25406	ENU09201	ANI61C8670: 1370..185			GTBX	"FGRc08201, Y13135"				"1.0e-15, 4.4e-33"			
25407	ENU09202	ANI61C8675: 1001..198			GTBX	"AFUc00793, FGRc05104, FGRc16937"				"1.1e-42, 2.9e-13, 1.3e-27"			
25408	ENU09203	ANI61C7953: 1094..460			GTBX	"AFUc10606, AFUc21738"				"8.2e-37, 7.6e-63"			
25409	ENU09204	ANI61C8684: 649..89			GTBX	AFUc05878				5.6E-37			
25410	ENU09205	ANI61C8686: 4315..5067			GTBX	AFUc14227				1.5E-32			
25411	ENU09206	ANI61C8687: 2002..1217			GTBX	"AFUc18036, FGRc00673"				"5.6e-34, 1.9e-46"			
25412	ENU09207	ANI61C8694: 1591..479			GTBX	"AFUc08873, FGRc22249"				"6.3e-98, 1.0e-48"			
25413	ENU09208	ANI61C7976: 322..71			GTBX	AFUc18580				1.7E-30			
25414	ENU09209	ANI61C5001: 1403..1140			GTBX	"AFUc02640, Y13134"				"1.7e-30, 5.7e-119"			
25415	ENU09210	ANI61C5009: 24..377			GTBX	FGRc17279				4.8E-39			
25416	ENU09211	ANI61C7980: 53..1288			GTBX	AFUc11561				4.4E-51			
25417	ENU09212	ANI61C5019: 76..693			GTBX	AFUc08840				9.1E-56			

Geneious

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25418	ENU09213	ANI61C7995: 1601..6527			GTBX	"AFUc01564, AFUc05116, AFUc09051, AFUc11907, AFUc11907"				"1.9e-44, 1.1e-118, 1.5e-129, 2.7e-65, 7.2e-77"			
25419	ENU09214	ANI61C4300: 1696..1159			GTBX	"AFUc08580, CALc03532"				"5.0e-68, 1.7e-70"			
25420	ENU09215	ANI61C4303: 8..436			GTBX	AFUc03796				9.3E-47			
25421	ENU09216	ANI61C5033: 40..1000			GTBX	AFUc06232				3.8E-70			
25422	ENU09217	ANI61C5036: 600..238			GTBX	"AFUc14677, AFUc15942"				"3.5e-27, 5.0e-08"			
25423	ENU09218	ANI61C4307: 1506..298			GTBX	"AFUc03507, AFUc09984, AFUc12002"				"1.9e-46, 2.0e-41, 3.3e-09"			
25424	ENU09219	ANI61C5037: 994..581			GTBX	AFUc15029				6.6E-33			
25425	ENU09220	ANI61C4310: 1263..517			GTBX	AFUc13413				4.4E-144			
25426	ENU09221	ANI61C4314: 115..406			GTBX	AFUc14056				6.6E-29			
25427	ENU09222	ANI61C4317: 1103..288			GTBX	AFUc13039				1.8E-48			
25428	ENU09223	ANI61C4320: 616..2524			GTBX	AFUc12578				2.4E-249			
25429	ENU09224	ANI61S957:5 40..1			GTBX	AFUc13345				4.4E-34			
25430	ENU09225	ANI61C3603: 5..547			GTBX	AFUc12517				2.2E-39			

GenBank Database

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25431	ENU09226	ANI61C4336:728..1			GTBX	AFUc15803				1.4E-40			
25432	ENU09227	ANI61C4337:952..483			GTBX	"AFUc13626, FGRc03674"				"3.8e-48, 1.2e-40"			
25433	ENU09228	ANI61C4338:666..96			GTBX	"AFUc13451, AFUc13451"				"1.7e-54, 1.7e-61"			
25434	ENU09229	ANI61C4341:829..287			GTBX	AFUc01317				3.4E-35			
25435	ENU09230	ANI61C4344:3049..1141			GTBX	"AFUc12501, CALc06236"				"2.4e-17, 1.1e-94"			
25436	ENU09231	ANI61C3616:1216..1622			GTBX	AFUc11581				3.2E-33			
25437	ENU09232	ANI61C3617:1144..657			GTBX	AFUc07024				6.9E-65			
25438	ENU09233	ANI61C3619:755..48			GTBX	"AFUc12259, Y13138"				"3.9e-58, 1.8e-10"			
25439	ENU09234	ANI61C3621:68..522			GTBX	CALc03177				3.4E-44			
25440	ENU09235	ANI61C3624:887..140			GTBX	FGRc06045				4.9E-24			
25441	ENU09236	ANI61C3626:905..3359			GTBX	"AFUc13163, AFUc13851"				"6.4e-96, 5.4e-119"			
25442	ENU09237	ANI61C5085:1915..5			GTBX	"AFUc11103, D50617"				"2.3e-108, 1.2e-157"			
25443	ENU09238	ANI61C3627:7636..8229			GTBX	"AFUc03814, AFUc21290"				"2.0e-37, 1.8e-12"			
25444	ENU09239	ANI61C4357:3358..4103			GTBX	"AFUc13706, AFUc22334, FGRc07656"				"5.6e-33, 4.7e-38, 2.4e-29"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
25445	ENU09240	ANI61C4358: 671..1564			GTBX	AFUc09818				2.3E-91			
25446	ENU09241	ANI61C4359: 163..1020			GTBX	AFUc08911				1.4E-42			
25447	ENU09242	ANI61C5089: 65..538			GTBX	AFUc00666				1.8E-48			
25448	ENU09243	ANI61S4199: 93..693			GTBX	AFUc15350				8E-41			
25449	ENU09244	ANI61C3636: 6447..7685			GTBX	AFUc20583				1.6E-24			
25450	ENU09245	ANI61C4365: 67..429			GTBX	AFUc10569				2.5E-29			
25451	ENU09246	ANI61C4368: 2709..1873			GTBX	AFUc11858				1.1E-108			
25452	ENU09247	ANI61C5097: 487..44			GTBX	AFUc05222				1.2E-24			
25453	ENU09248	ANI61S3472: 367..44			GTBX	"AFUc18364, CALc04995"				"7.5e-43, 3.5e-19"			
25454	ENU09249	ANI61C3640: 1580..893			GTBX	AFUc15969				3.1E-153			
25455	ENU09250	ANI61C4370: 216..1478			GTBX	"AFUc13516, AFUc14043, AFUc15051, FGRc01953"				"3.6e-42, 8.1e-24, 5.2e-105, 8.5e-21"			
25456	ENU09251	ANI61C2912: 629..16			GTBX	AFUc10688				9E-43			
25457	ENU09252	ANI61C4373: 445..695			GTBX	AFUc09914				9.6E-53			

Table 6: Continued

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25458	ENU09253	ANI61C3645: 5320..6232			GTBX	FGRc09513				1.3E-21			
25459	ENU09254	ANI61C4378: 239..1305			GTBX	"AFUc02594, AFUc07825"				"2.6e-23, 4.9e-61"			
25460	ENU09255	ANI61S3489: 113..452			GTBX	CALc04906				9.1E-48			
25461	ENU09256	ANI61C2920: 965..1437			GTBX	Y13140				2.1e-24			
25462	ENU09257	ANI61C3650: 1816..3768			GTBX	AFUc15925				1.7E-151			
25463	ENU09258	ANI61C4382: 39..667			GTBX	AFUc06115				3.9E-28			
25464	ENU09259	ANI61C3655: 5..607			GTBX	"AFUc04082, FGRc03487"				"1.1e-16, 2.7e-26"			
25465	ENU09260	ANI61C2927: 556..311			GTBX	AFUc10442				7.5E-25			
25466	ENU09261	ANI61C2932: 377..873			GTBX	CALc04475				4.6E-79			
25467	ENU09262	ANI61C3661: 613..2			GTBX	"AFUc01462, AFUc19592"				"1.1e-31, 2.0e-18"			
25468	ENU09263	ANI61C4391: 2513..355			GTBX	"AFUc13024, AFUc15301"				"2.3e-68, 7.6e-132"			
25469	ENU09264	ANI61C4391: 5770..4632			GTBX	"AFUc08279, Y13139"				"1.2e-32, 5.3e-65"			
25470	ENU09265	ANI61C2934: 335..1188			GTBX	"AFUc11881, AFUc11881"				"1.7e-77, 2.7e-77"			
25471	ENU09266	ANI61C4392: 918..57			GTBX	AFUc07215				1.1E-54			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
25472	ENU09267	ANI61C4393: 4..780			GTBX	"AFUc13630, Y13134"				"4.6e-34, 2.5e-61"			
25473	ENU09268	ANI61C3665: 744..13			GTBX	"AFUc12550, CALc05628, FGRC10684"				"8.4e-45, 2.3e-41, 1.2e-68"			
25474	ENU09269	ANI61C2936: 3..788			GTBX	"AFUc11814, FGRC11194"				"6.4e-45, 1.3e-77"			
25475	ENU09270	ANI61C3669: 674..4			GTBX	CALc05387				6.1E-60			
25476	ENU09271	ANI61C4398: 167..484			GTBX	AFUc05879				4.1E-42			
25477	ENU09272	ANI61C2942: 599..1304			GTBX	"AFUc06459, AFUc13777"				"3.1e-14, 1.9e-50"			
25478	ENU09273	ANI61C3681: 820..1754			GTBX	"AFUc14966, CALc04781"				"6.1e-140, 9.4e-56"			
25479	ENU09274	ANI61C3692: 649..71			GTBX	"AFUc02774, AFUc02886"				"1.3e-41, 1.0e-06"			
25480	ENU09275	ANI61C3696: 4..633			GTBX	AFUc12839				7.9E-64			
25481	ENU09276	ANI61C2969: 3638..2636			GTBX	"AFUc09259, AFUc09259"				"2.0e-40, 5.6e-58"			
25482	ENU09277	ANI61C2971: 73..501			GTBX	FGRC24981				1.9E-21			
25483	ENU09278	ANI61C2976: 1318..175			GTBX	AFUc04211				5.4E-93			
25484	ENU09279	ANI61C2999: 876..1			GTBX	Z71256				6.5e-84			
25485	ENU09280	ANI61C9402: 2171..856			GTBX	"FGRC03487, FGRC09159, FGRC09159, FGRC23883"				"1.3e-37, 4.4e-29, 8.6e-30, 5.8e-11"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25486	ENU09281	ANI61C9439: 80..469			GTBX	AFUc15622				8.9E-30			
25487	ENU09282	ANI61C9440: 779..462			GTBX	AFUc11219				3.3E-61			
25488	ENU09283	ANI61C9440: 3473..3216			GTBX	AFUc08291				8.7E-44			
25489	ENU09284	ANI61C9441: 564..293			GTBX	AFUc08255				8.9E-26			
25490	ENU09285	ANI61C8713: 857..341			GTBX	AFUc05686				3.6E-29			
25491	ENU09286	ANI61C8714: 1347..1968			GTBX	AFUc20415				2E-24			
25492	ENU09287	ANI61C9445: 256..1691			GTBX	AFUc07629				5.2E-69			
25493	ENU09288	ANI61C9446: 221..547			GTBX	AFUc12171				4.8E-35			
25494	ENU09289	ANI61C9451: 4905..5724			GTBX	"AFUc05775, CALc05482"				"7.3e-64, 9.1e-41"			
25495	ENU09290	ANI61C8722: 765..153			GTBX	AFUc03370				5.4E-35			
25496	ENU09291	ANI61C8722: 2606..3753			GTBX	"AFUc03885, AFUc11035"				"1.8e-30, 3.8e-53"			
25497	ENU09292	ANI61C9455: 480..79			GTBX	AFUc18390				2.9E-23			
25498	ENU09293	ANI61C9456: 1440..613			GTBX	AFUc12641				1.1E-86			
25499	ENU09294	ANI61C8727: 4183..3316			GTBX	AFUc09501				1.1E-72			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
25500	ENU09295	ANI61C9459: 759..1691			GTBX	"AFUc18002, AFUc20595"				"3.4e-58, 1.5e-39"			
25501	ENU09296	ANI61C8730: 4397..5083			GTBX	"AFUc07855, FGRc11749"				"1.1e-24, 1.7e-09"			
25502	ENU09297	ANI61C9461: 1997..2263			GTBX	AFUc03878				2.7E-36			
25503	ENU09298	ANI61C9464: 1019..1336			GTBX	AFUc10300				2.6E-29			
25504	ENU09299	ANI61C9465: 2884..3407			GTBX	"AFUc08665, AFUc08665"				"8.6e-122, 9.5e-97"			
25505	ENU09300	ANI61C8737: 1091..741			GTBX	AFUc12153				2.4E-35			
25506	ENU09301	ANI61C9469: 248..1142			GTBX	AFUc11644				8.5E-33			
25507	ENU09302	ANI61C8741: 856..1840			GTBX	AFUc13104				1.4E-61			
25508	ENU09303	ANI61C9470: 774..202			GTBX	AFUc15952				4.4E-72			
25509	ENU09304	ANI61C8743: 4032..4467			GTBX	AFUc15883				8.5E-24			
25510	ENU09305	ANI61C8745: 778..11			GTBX	AFUc07060				4E-35			
25511	ENU09306	ANI61C9477: 2962..3512			GTBX	AFUc09065				2E-58			
25512	ENU09307	ANI61C9479: 1230..7			GTBX	AFUc14503				1.5E-32			
25513	ENU09308	ANI61C8750: 1390..2176			GTBX	CALc06230				1.2E-262			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	nebi gi	aat Score	Blast Prob	% id	cvg	Description
25514	ENU09309	ANI61C8751: 2404..14			GTBX	"AFUc04130, AFUc16265"			"1.5e-29, 8.4e-27"			
25515	ENU09310	ANI61C8757: 1640..1332			GTBX	AFUc08891			7.1E-22			
25516	ENU09311	ANI61C8759: 3132..3793			GTBX	FGRc16689			7.5E-21			
25517	ENU09312	ANI61C9491: 2615..1865			GTBX	CALc06160			8E-24			
25518	ENU09313	ANI61C8765: 548..896			GTBX	AFUc09309			1.1E-36			
25519	ENU09314	ANI61C8767: 1869..1250			GTBX	AFUc14377			4.9E-28			
25520	ENU09315	ANI61C9497: 1070..1664			GTBX	"AFUc10902, AFUc10902"			"8.1e-43, 9.7e-22"			
25521	ENU09316	ANI61C8780: 1254..2080			GTBX	"AFUc15659, FGRc19707"			"1.3e-15, 1.2e-29"			
25522	ENU09317	ANI61C8781: 1983..1047			GTBX	"AFUc03553, AFUc07731"			"1.7e-119, 2.6e-30"			
25523	ENU09318	ANI61C8795: 1064..834			GTBX	FGRc02905			2.8E-39			
25524	ENU09319	ANI61C8797: 620..834			GTBX	AFUc13831			3.4E-59			
25525	ENU09320	ANI61C8797: 1467..2151			GTBX	"AFUc03642, AFUc13831"			"2.8e-13, 3.4e-59"			
25526	ENU09321	ANI61C5102: 300..535			GTBX	AFUc19728			2.1E-22			
25527	ENU09322	ANI61C5103: 402..1			GTBX	AFUc14207			9.4E-86			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25528	ENU09323	ANI61C5110: 1141..410			GTBX	"AFUc18303, CALc06183"				"1.2e-34, 1.4e-90"			
25529	ENU09324	ANI61C5111: 912..1773			GTBX	"AFUc05704, AFUc13358"				"1.1e-34, 1.1e-34"			
25530	ENU09325	ANI61C5115: 1345..1022			GTBX	AFUc19450				1.1E-44			
25531	ENU09326	ANI61C5119: 582..14			GTBX	AFUc07458				2.7E-28			
25532	ENU09327	ANI61C5124: 804..1031			GTBX	AFUc07545				5.5E-22			
25533	ENU09328	ANI61C4400: 2306..1797			GTBX	"FGRc08787, FGRc14740"				"7.0e-21, 4.4e-17"			
25534	ENU09329	ANI61C4401: 2345..1654			GTBX	"AFUc05876, FGRc05155"				"4.8e-30, 7.0e-10"			
25535	ENU09330	ANI61C4406: 538..251			GTBX	AFUc07366				1.4E-21			
25536	ENU09331	ANI61C4407: 4154..5342			GTBX	"AFUc01633, AFUc19340"				"6.1e-20, 1.6e-39"			
25537	ENU09332	ANI61C4408: 1390..3			GTBX	AFUc13334				8E-99			
25538	ENU09333	ANI61C5137: 1034..13			GTBX	U00091				3.4e-45			
25539	ENU09334	ANI61C4409: 579..2167			GTBX	"AFUc02131, CALc04637, FGRc10200"				"1.1e-80, 4.6e-17, 7.3e-65"			
25540	ENU09335	ANI61S4243: 78..437			GTBX	Y18138				2.5e-15			
25541	ENU09336	ANI61S3519: 56..256			GTBX	AFUc13413				4E-24			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25542	ENU09337	ANI61C5143: 665..148			GTBX	AFUc22527				2.5E-69			
25543	ENU09338	ANI61C4415: 697..308			GTBX	AFUc08588				8.1E-50			
25544	ENU09339	ANI61C4415: 1944..2984			GTBX	"AFUc14631, Z71256"				"5.7e-117, 4.2e-40"			
25545	ENU09340	ANI61C5153: 400..1153			GTBX	AFUc15665				9.9E-110			
25546	ENU09341	ANI61C4428: 2186..509			GTBX	"AFUc03693, AFUc15500"				"1.3e-09, 4.9e-36"			
25547	ENU09342	ANI61C4429: 456..989			GTBX	AFUc02454				1.9E-48			
25548	ENU09343	ANI61C4430: 590..6			GTBX	"AFUc05777, AFUc11518"				"3.2e-11, 3.9e-35"			
25549	ENU09344	ANI61C4431: 865..1682			GTBX	CALc05985				7.5E-34			
25550	ENU09345	ANI61C4431: 2288..1929			GTBX	AFUc19720				1.9E-32			
25551	ENU09346	ANI61C5161: 6479..8758			GTBX	"AFUc15497, FGRc01538"				"2.1e-195, 1.2e-29"			
25552	ENU09347	ANI61C4435: 44..619			GTBX	AFUc10109				2.3E-49			
25553	ENU09348	ANI61C4436: 562..5			GTBX	"AFUc20304, FGRc08260"				"2.3e-42, 1.2e-10"			
25554	ENU09349	ANI61C4439: 603..957			GTBX	"AFUc15143, AFUc22336"				"4.2e-45, 1.0e-09"			
25555	ENU09350	ANI61C3716: 495..52			GTBX	AFUc17201				8.4E-27			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25556	ENU09351	ANI61C5184: 1185..739			GTBX	FGRc06929				2.5E-27			
25557	ENU09352	ANI61C5184: 1958..2668			GTBX	"AFUc02805, AFUc21089"				"2.8e-37, 4.9e-21"			
25558	ENU09353	ANI61C5189: 1018..77			GTBX	AFUc11900				1.1E-105			
25559	ENU09354	ANI61C3732: 61..673			GTBX	AFUc01401				2.1E-67			
25560	ENU09355	ANI61C3733: 3210..1934			GTBX	"FGRc03487, FGRc09159"				"5.7e-40, 2.8e-32"			
25561	ENU09356	ANI61C5191: 8..424			GTBX	AFUc09001				5.6E-37			
25562	ENU09357	ANI61C3738: 6..715			GTBX	"AFUc03774, AFUc13364"				"8.2e-10, 1.8e-39"			
25563	ENU09358	ANI61C5199: 1578..1127			GTBX	AFUc14538				3.3E-24			
25564	ENU09359	ANI61S2843: 428..10			GTBX	"AFUc14444, FGRc10441"				"8.6e-31, 9.2e-07"			
25565	ENU09360	ANI61C3747: 51..467			GTBX	AFUc14515				1.4E-45			
25566	ENU09361	ANI61S3584: 97..486			GTBX	AFUc10638				2.5E-31			
25567	ENU09362	ANI61C3751: 892..219			GTBX	FGRc00730				4.1E-26			
25568	ENU09363	ANI61C3754: 4387..4890			GTBX	"AFUc02406, CALc04204"				"8.0e-11, 5.7e-83"			
25569	ENU09364	ANI61C4484: 195..646			GTBX	AFUc11050				2.8E-26			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
25570	ENU09365	ANI61C4485: 470..1338			GTBX	AFUc11852				2.8E-121			
25571	ENU09366	ANI61C3758: 368..568			GTBX	FGRc26076				1E-32			
25572	ENU09367	ANI61S2863: 456..103			GTBX	AFUc00783				2E-55			
25573	ENU09368	ANI61C4495: 836..438			GTBX	AFUc01513				6.8E-93			
25574	ENU09369	ANI61C4496: 973..1308			GTBX	FGRc10958				4E-67			
25575	ENU09370	ANI61C4497: 1059..277			GTBX	AFUc15397				2.5E-74			
25576	ENU09371	ANI61C3777: 414..651			GTBX	"AFUc21795, FGRc13545"				"1.3e-28, 3.1e-25"			
25577	ENU09372	ANI61C3785: 1070..87			GTBX	"AFUc09448, FGRc15416"				"3.1e-107, 8.7e-28"			
25578	ENU09373	ANI61C3786: 347..670			GTBX	AFUc15598				4.3E-84			
25579	ENU09374	ANI61C9504: 1509..983			GTBX	AFUc15752				6E-62			
25580	ENU09375	ANI61C9505: 6..593			GTBX	FGRc08493				8.8E-24			
25581	ENU09376	ANI61C9508: 1395..319			GTBX	"AFUc02590, AFUc21220"				"1.3e-22, 3.5e-14"			
25582	ENU09377	ANI61C9521: 1526..810			GTBX	"AFUc02035, FGRc16341"				"5.7e-54, 1.2e-07"			
25583	ENU09378	ANI61C9523: 2194..13			GTBX	"AFUc08207, AFUc09870"				"1.8e-65, 7.3e-119"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25584	ENU09379	ANI61C9524: 491..986			GTBX	AFUc15203				2.5E-28			
25585	ENU09380	ANI61C9528: 1204..737			GTBX	AFUc05005				1.1E-24			
25586	ENU09381	ANI61C9529: 368..93			GTBX	AFUc05865				5.5E-26			
25587	ENU09382	ANI61C9531: 724..2			GTBX	AFUc08448				6.3E-38			
25588	ENU09383	ANI61C8803: 60..1376			GTBX	"AFUc06649, AFUc09276, AFUc09645, AFUc15313, FGRC11399"				"8.5e-10, 8.2e-10, 6.1e-38, 3.1e-53, 5.2e-08" 2.6E-64			
25589	ENU09384	ANI61C8808: 3412..4903			GTBX	FGRC04144							
25590	ENU09385	ANI61C8809: 304..1298			GTBX	"AFUc10278, FGRC24365"				"1.3e-76, 1.7e-38"			
25591	ENU09386	ANI61C9539: 1484..1182			GTBX	AFUc03644				3.4E-48			
25592	ENU09387	ANI61C8814: 3867..5544			GTBX	AFUc12826				4.6E-78			
25593	ENU09388	ANI61C9543: 28..687			GTBX	"AFUc05060, AFUc19153"				"5.8e-10, 7.8e-22"			
25594	ENU09389	ANI61C8815: 226..648			GTBX	AFUc22266				2.3E-27			
25595	ENU09390	ANI61C8818: 1872..1054			GTBX	AFUc13384				9.4E-45			
25596	ENU09391	ANI61C9547: 556..56			GTBX	AFUc09688				6.5E-47			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25597	ENU09392	ANI61C9548:1206..482			GTBX	AFUc02615				5E-21			
25598	ENU09393	ANI61C9549:160..864			GTBX	AFUc01363				2.1E-25			
25599	ENU09394	ANI61C8820:2367..49			GTBX	"AFUc00774, AFUc02877, AFUc05794, AFUc15944, AFUc22301"				"8.7e-55, 1.1e-11, 3.2e-60, 6.1e-25, 3.4e-16"			
25600	ENU09395	ANI61C8821:1333..384			GTBX	AFUc10083				7.2E-44			
25601	ENU09396	ANI61C8821:1619..2665			GTBX	"FGRc04178, Z71256"				"5.1e-08, 6.6e-88"			
25602	ENU09397	ANI61C9553:2145..406			GTBX	"AFUc06513, AFUc07337, CALc06139"				"1.2e-55, 9.6e-62, 4.0e-40"			
25603	ENU09398	ANI61C9556:7313..7830			GTBX	FGRc11417				2.8E-61			
25604	ENU09399	ANI61C8827:1639..428			GTBX	FGRc06586				7.5E-35			
25605	ENU09400	ANI61C8831:2299..2823			GTBX	"AFUc01894, CALc05378"				"4.2e-36, 1.8e-38"			
25606	ENU09401	ANI61C9566:2382..1796			GTBX	"AFUc14024, FGRc03629"				"8.2e-20, 5.8e-27"			
25607	ENU09402	ANI61C9567:1721..2586			GTBX	AFUc08775				2.6E-28			
25608	ENU09403	ANI61C9569:1936..900			GTBX	"AFUc11045, FGRc07076"				"1.3e-26, 2.2e-09"			
25609	ENU09404	ANI61C9572:3019..2194			GTBX	CALc05999				4.9E-122			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25610	ENU09405	ANI61C8846: 2..490			GTBX	AFUc09502				2.1E-50			
25611	ENU09406	ANI61C9579: 4150..3347			GTBX	AFUc05155				2.4E-30			
25612	ENU09407	ANI61C9582: 1668..221			GTBX	"AFUc09791, AFUc14294, AFUc15490"				"1.2e-28, 3.4e-45, 5.5e-78"			
25613	ENU09408	ANI61C8854: 633..1820			GTBX	"AFUc03263, AFUc08210"				"1.4e-07, 1.2e-33"			
25614	ENU09409	ANI61C8857: 2334..2536			GTBX	AFUc06435				1.5E-121			
25615	ENU09410	ANI61C9592: 105..520			GTBX	"FGRc09345, FGRc21977"				"6.9e-29, 2.9e-14"			
25616	ENU09411	ANI61C9595: 1129..674			GTBX	AFUc14898				6.6E-58			
25617	ENU09412	ANI61C8867: 803..26			GTBX	"AFUc08398, CALc05816"				"5.9e-24, 1.3e-17"			
25618	ENU09413	ANI61C8873: 8152..7032			GTBX	AFUc12824				2.7E-89			
25619	ENU09414	ANI61C8875: 12..1277			GTBX	AFUc14483				4.9E-162			
25620	ENU09415	ANI61C8878: 44..934			GTBX	AFUc14882				7.3E-46			
25621	ENU09416	ANI61C8879: 1404..2768			GTBX	AFUc14241				1.9E-70			
25622	ENU09417	ANI61C8884: 1067..53			GTBX	AFUc07086				4.5E-95			
25623	ENU09418	ANI61C8888: 1156..1536			GTBX	U00093				1.2e-74			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
25624	ENU09419	ANI61C8889: 702..1898			GTBX	"AFUc03016, CALc03652"				"1.4e-55, 2.8e-59"			
25625	ENU09420	ANI61C8892: 1683..192			GTBX	"AFUc13932, FGRc11747, FGRc17309, FGRc26009"				"1.4e-25, 1.3e-10, 5.3e-09, 1.1e-16"			
25626	ENU09421	ANI61C8895: 67..904			GTBX	"AFUc11204, AFUc11814"				"2.5e-34, 1.2e-104"			
25627	ENU09422	ANI61C5207: 316..663			GTBX	AFUc15608				1.5E-46			
25628	ENU09423	ANI61C5207: 1872..793			GTBX	"AFUc03870, AFUc07633, AFUc19031"				"6.3e-16, 1.2e-19, 9.9e-70"			
25629	ENU09424	ANI61C5208: 2536..2216			GTBX	"AFUc06181, Y13138"				"1.5e-32, 9.0e-162"			
25630	ENU09425	ANI61C5209: 1457..2136			GTBX	"AFUc17725, FGRc11373"				"3.9e-27, 7.4e-19"			
25631	ENU09426	ANI61C5210: 2139..105			GTBX	AFUc15196				3.7E-186			
25632	ENU09427	ANI61C5215: 2509..2763			GTBX	AFUc15348				7.2E-121			
25633	ENU09428	ANI61C5222: 2322..719			GTBX	"AFUc07927, FGRc02874"				"7.9e-86, 9.0e-10"			
25634	ENU09429	ANI61C5224: 1472..13			GTBX	CALc05716				1.7E-119			
25635	ENU09430	ANI61C5228: 399..962			GTBX	AFUc14750				1.2E-90			
25636	ENU09431	ANI61S3608: 177..573			GTBX	AFUc22203				1.8E-23			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25637	ENU09432	ANI61C4506: 499..29			GTBX	AFUc15788				9.6E-33			
25638	ENU09433	ANI61C5237: 420..1271			GTBX	AFUc14942				6.9E-104			
25639	ENU09434	ANI61C5247: 4110..4852			GTBX	AFUc13730				1E-97			
25640	ENU09435	ANI61C4519: 2052..587			GTBX	AFUc15419				5.4E-127			
25641	ENU09436	ANI61C5251: 672..47			GTBX	Y13137				4.1e-43			
25642	ENU09437	ANI61C4526: 1413..1054			GTBX	AFUc15744				1.3E-147			
25643	ENU09438	ANI61C5256: 674..26			GTBX	"AFUc06812, AFUc08626"				"1.7e-44, 2.8e-09"			
25644	ENU09439	ANI61C4528: 509..147			GTBX	AFUc15759				1.9E-29			
25645	ENU09440	ANI61S4368: 60..639			GTBX	AFUc07754				2.2E-21			
25646	ENU09441	ANI61C3803: 1096..2			GTBX	"AFUc08591, AFUc13887"				"1.1e-55, 4.4e-75"			
25647	ENU09442	ANI61C3805: 4035..3580			GTBX	AFUc04676				6.3E-45			
25648	ENU09443	ANI61C3808: 743..411			GTBX	Y13138				5.8e-14			
25649	ENU09444	ANI61C5269: 1394..2229			GTBX	"AFUc02280, AFUc22008"				"9.4e-57, 2.0e-43"			
25650	ENU09445	ANI61C3810: 82..437			GTBX	AFUc15201				4E-52			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25651	ENU09446	ANI61C3811: 1376..1654			GTBX	AFUc06467				3.5E-30			
25652	ENU09447	ANI61C4542: 916..574			GTBX	"AFUc02869, AFUc02869"				"1.7e-65, 4.7e-26"			
25653	ENU09448	ANI61C3813: 1846..3158			GTBX	"FGRc12841, FGRC22473, FGRC23239"				"4.6e-26, 7.9e-35, 1.6e-43"			
25654	ENU09449	ANI61C5273: 2..1156			GTBX	"AFUc05117, AFUc11543"				"5.4e-27, 1.6e-92"			
25655	ENU09450	ANI61C3817: 78..1162			GTBX	AFUc12851				2.7E-75			
25656	ENU09451	ANI61C3821: 672..411			GTBX	AFUc15435				4.7E-56			
25657	ENU09452	ANI61C4551: 151..475			GTBX	AFUc18864				3.2E-45			
25658	ENU09453	ANI61C5280: 1840..2502			GTBX	"AFUc04510, AFUc18595"				"1.2e-24, 2.7e-07"			
25659	ENU09454	ANI61C3823: 22..252			GTBX	AFUc12507				7.4E-60			
25660	ENU09455	ANI61C3824: 595..981			GTBX	FGRc23435				2.8E-21			
25661	ENU09456	ANI61C3825: 375..735			GTBX	"AFUc06063, CALc02020, Y13134"				"5.9e-40, 3.0e-16, 6.7e-17"			
25662	ENU09457	ANI61C5283: 954..108			GTBX	AFUc12676				4.8E-36			
25663	ENU09458	ANI61C5286: 531..786			GTBX	"AFUc12628, AFUc12628, FGRc07656"				"5.6e-24, 6.7e-29, 3.4e-13"			
25664	ENU09459	ANI61C4559: 151..684			GTBX	AFUc21004				3.4E-31			

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25665	ENU09460	ANI61S4392: 18..500			GTBX	"AFUc01686, Y13138"				"1.1e-43, 2.9e-62"			
25666	ENU09461	ANI61C4561: 27..754			GTBX	"AFUc10269, FGRC22925"				"3.0e-23, 2.5e-28"			
25667	ENU09462	ANI61C3833: 646..232			GTBX	FGRC04710				8.2E-72			
25668	ENU09463	ANI61C3834: 1167..1727			GTBX	AFUc16457				3.3E-29			
25669	ENU09464	ANI61C5294: 1041..654			GTBX	"AFUc15936, FGRC11101"				"1.2e-123, 5.2e-24"			
25670	ENU09465	ANI61S3674: 270..8			GTBX	AFUc10670				8.6E-33			
25671	ENU09466	ANI61C3840: 162..656			GTBX	"AFUc18322, AFUc21010"				"1.7e-19, 2.1e-26"			
25672	ENU09467	ANI61C4570: 2285..3385			GTBX	AFUc17804				1.3E-21			
25673	ENU09468	ANI61C4585: 983..30			GTBX	Y13135				4.5e-64			
25674	ENU09469	ANI61C4589: 727..290			GTBX	AFUc21610				2E-25			
25675	ENU09470	ANI61C3869: 25..390			GTBX	AFUc08072				4.6E-43			
25676	ENU09471	ANI61C4599: 54..440			GTBX	AFUc08426				1.4E-25			
25677	ENU09472	ANI61C3870: 791..270			GTBX	CALc05830				2.9E-34			
25678	ENU09473	ANI61C3877: 1384..1001			GTBX	AFUc01915				1.9E-47			

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$ $\frac{1}{11}$ $\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{15}$ $\frac{1}{16}$ $\frac{1}{17}$ $\frac{1}{18}$ $\frac{1}{19}$ $\frac{1}{20}$ $\frac{1}{21}$ $\frac{1}{22}$ $\frac{1}{23}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{26}$ $\frac{1}{27}$ $\frac{1}{28}$ $\frac{1}{29}$ $\frac{1}{30}$ $\frac{1}{31}$ $\frac{1}{32}$ $\frac{1}{33}$ $\frac{1}{34}$ $\frac{1}{35}$ $\frac{1}{36}$ $\frac{1}{37}$ $\frac{1}{38}$ $\frac{1}{39}$ $\frac{1}{40}$ $\frac{1}{41}$ $\frac{1}{42}$ $\frac{1}{43}$ $\frac{1}{44}$ $\frac{1}{45}$ $\frac{1}{46}$ $\frac{1}{47}$ $\frac{1}{48}$ $\frac{1}{49}$ $\frac{1}{50}$ $\frac{1}{51}$ $\frac{1}{52}$ $\frac{1}{53}$ $\frac{1}{54}$ $\frac{1}{55}$ $\frac{1}{56}$ $\frac{1}{57}$ $\frac{1}{58}$ $\frac{1}{59}$ $\frac{1}{60}$ $\frac{1}{61}$ $\frac{1}{62}$ $\frac{1}{63}$ $\frac{1}{64}$ $\frac{1}{65}$ $\frac{1}{66}$ $\frac{1}{67}$ $\frac{1}{68}$ $\frac{1}{69}$ $\frac{1}{70}$ $\frac{1}{71}$ $\frac{1}{72}$ $\frac{1}{73}$ $\frac{1}{74}$ $\frac{1}{75}$ $\frac{1}{76}$ $\frac{1}{77}$ $\frac{1}{78}$ $\frac{1}{79}$ $\frac{1}{80}$ $\frac{1}{81}$ $\frac{1}{82}$ $\frac{1}{83}$ $\frac{1}{84}$ $\frac{1}{85}$ $\frac{1}{86}$ $\frac{1}{87}$ $\frac{1}{88}$ $\frac{1}{89}$ $\frac{1}{90}$ $\frac{1}{91}$ $\frac{1}{92}$ $\frac{1}{93}$ $\frac{1}{94}$ $\frac{1}{95}$ $\frac{1}{96}$ $\frac{1}{97}$ $\frac{1}{98}$ $\frac{1}{99}$ $\frac{1}{100}$

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
25679	ENU09474	ANI61C3878: 1289..596			GTBX	"CALc04339, FGRc02339"				"4.4e-76, 3.3e-84"			
25680	ENU09475	ANI61C3879: 684..79			GTBX	AFUc09507				2.3E-40			
25681	ENU09476	ANI61C3881: 785..207			GTBX	CALc03328				5.8E-44			
25682	ENU09477	ANI61C3888: 813..247			GTBX	AFUc05510				6.2E-28			
25683	ENU09478	ANI61C3889: 1158..606			GTBX	AFUc13973				9.9E-73			
25684	ENU09479	ANI61C3893: 1373..3			GTBX	"AFUc04394, AFUc14651"				"8.1e-41, 2.6e-96"			
25685	ENU09480	ANI61C3895: 540..755			GTBX	AFUc12362				1.1E-54			
25686	ENU09481	ANI61C9601: 7148..7954			GTBX	AFUc17920				5.3E-44			
25687	ENU09482	ANI61C9605: 1032..50			GTBX	AFUc12404				5.5E-76			
25688	ENU09483	ANI61C9609: 1184..573			GTBX	"AFUc12674, AFUc16179, FGRc06836"				"7.5e-22, 5.1e-25, 3.7e-61"			
25689	ENU09484	ANI61C9611: 1087..208			GTBX	CALc04433				2.7E-99			
25690	ENU09485	ANI61C9621: 2017..1559			GTBX	AFUc01710				9.7E-47			
25691	ENU09486	ANI61C9624: 1287..1999			GTBX	"AFUc04270, AFUc04681, AFUc04681"				"2.7e-49, 1.4e-28, 2.4e-35"			
25692	ENU09487	ANI61C8901: 1882..2697			GTBX	AFUc13517				4.7E-78			

BLAST Results

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25706	ENU09501	ANI61C9669: 3783..5102			GTBX	"AFUc10037, AFUc12096"				"1.4e-95, 5.2e-40"			
25707	ENU09502	ANI61C8941: 564..836			GTBX	AFUc07937				1.5E-56			
25708	ENU09503	ANI61C9675: 2597..749			GTBX	"AFUc10109, AFUc17198, AFUc17198, FGRc15837, FGRc26158"				"3.0e-78, 4.0e-21, 5.3e-23, 1.5e-21, 3.5e-13"			
25709	ENU09504	ANI61C9677: 2010..1543			GTBX	AFUc12413				1.7E-102			
25710	ENU09505	ANI61C8954: 683..447			GTBX	AFUc08873				6.9E-34			
25711	ENU09506	ANI61C9687: 829..2			GTBX	"FGRc12006, Y13136"				"1.2e-51, 5.3e-40"			
25712	ENU09507	ANI61C9691: 2115..1211			GTBX	AFUc05215				5.3E-41			
25713	ENU09508	ANI61C9692: 1160..606			GTBX	AFUc16896				2.9E-28			
25714	ENU09509	ANI61C9694: 4490..3594			GTBX	"AFUc20993, U00092"				"2.6e-46, 3.6e-07"			
25715	ENU09510	ANI61C8966: 5753..6363			GTBX	"AFUc06989, Z71256"				"4.3e-36, 4.6e-11"			
25716	ENU09511	ANI61C9695: 923..72			GTBX	"AFUc14005, AFUc20315"				"7.8e-29, 3.3e-73"			
25717	ENU09512	ANI61C8967: 2826..2269			GTBX	AFUc03802				4.7E-40			
25718	ENU09513	ANI61C8971: 1468..733			GTBX	"CALc05073, FGRc02949"				"1.2e-22, 7.5e-24"			

Gene Bedtools

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
25719	ENU09514	ANI61C8973: 574..1417			GTBX	AFUc21866				1.9E-30			
25720	ENU09515	ANI61C8979: 129..506			GTBX	AFUc00391				5.9E-29			
25721	ENU09516	ANI61C8979: 3411..3851			GTBX	AFUc05896				9.6E-24			
25722	ENU09517	ANI61C6002: 1830..1440			GTBX	AFUc13365				4.5E-61			
25723	ENU09518	ANI61C6003: 1016..1437			GTBX	AFUc14299				3.9E-71			
25724	ENU09519	ANI61C8982: 756..2038			GTBX	"AFUc09202, Y13139"				"6.1e-92, 1.1e-28"			
25725	ENU09520	ANI61C8987: 5718..5065			GTBX	FGRc14942				2.8E-33			
25726	ENU09521	ANI61C8988: 29..1003			GTBX	"AFUc09518, FGRc00963"				"4.6e-37, 8.8e-14"			
25727	ENU09522	ANI61C6010: 705..413			GTBX	AFUc11775				3.6E-69			
25728	ENU09523	ANI61C8992: 1060..1268			GTBX	AFUc15788				6.5E-46			
25729	ENU09524	ANI61C6023: 22..959			GTBX	AFUc08361				2.1E-105			
25730	ENU09525	ANI61C6028: 698..112			GTBX	AFUc15445				2.8E-45			
25731	ENU09526	ANI61C5302: 804..1978			GTBX	"AFUc03529, FGRc15568, FGRc23030"				"3.9e-75, 1.9e-31, 6.8e-27"			
25732	ENU09527	ANI61C6032: 121..656			GTBX	FGRc24538				5.3E-24			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25733	ENU09528	ANI61C5304: 20..1813			GTBX	"CALc04320, CALc06192"				"4.1e-46, 1.3e-114"			
25734	ENU09529	ANI61C5307: 1011..634			GTBX	AFUc13255				1.7E-36			
25735	ENU09530	ANI61C6040: 498..238			GTBX	AFUc14608				1.3E-22			
25736	ENU09531	ANI61C5312: 17..463			GTBX	AFUc08453				1.5E-54			
25737	ENU09532	ANI61C6044: 827..423			GTBX	"AFUc20402, CALc05987, FGRC05827"				"1.4e-19, 7.9e-53, 3.2e-52"			
25738	ENU09533	ANI61C5317: 3..599			GTBX	"AFUc20512, CALc05290"				"3.1e-46, 1.8e-07"			
25739	ENU09534	ANI61C5320: 383..24			GTBX	CALc05007				6.7E-28			
25740	ENU09535	ANI61C5322: 2464..874			GTBX	"AFUc11807, FGRC09518"				"4.3e-88, 4.4e-20"			
25741	ENU09536	ANI61C5323: 557..1220			GTBX	AFUc08478				9.2E-73			
25742	ENU09537	ANI61C6052: 840..342			GTBX	AFUc01410				9.1E-40			
25743	ENU09538	ANI61C5324: 1547..58			GTBX	"AFUc06920, AFUc07230, AFUc14567, Y13135"				"5.1e-54, 1.9e-34, 7.7e-11, 5.1e-13"			
25744	ENU09539	ANI61C6062: 377..39			GTBX	AFUc13039				3.2E-30			
25745	ENU09540	ANI61C4610: 78..674			GTBX	AFUc07396				4.1E-82			
25746	ENU09541	ANI61C5341: 1441..35			GTBX	"AFUc21842, CALc05774"				"8.4e-62, 1.9e-72"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25747	ENU09542	ANI61C6074:1430..126			GTBX	Y13137				7.4e-89			
25748	ENU09543	ANI61C5348:2041..49			GTBX	"AFUc04409, AFUc14023"				"2.3e-18, 2.3e-22"			
25749	ENU09544	ANI61C5351:3706..2627			GTBX	FGRc11453				1.5E-44			
25750	ENU09545	ANI61C5355:400..77			GTBX	AFUc22404				5.3E-47			
25751	ENU09546	ANI61C5363:1986..2330			GTBX	AFUc02673				1.1E-35			
25752	ENU09547	ANI61S3748:25..508			GTBX	AFUc19745				4.5E-46			
25753	ENU09548	ANI61C3914:1..336			GTBX	AFUc12813				2E-30			
25754	ENU09549	ANI61C5372:2782..3320			GTBX	AFUc10825				3E-56			
25755	ENU09550	ANI61C4644:385..122			GTBX	"AFUc14213, CALc06077"				"1.0e-23, 6.0e-13"			
25756	ENU09551	ANI61C3915:1063..782			GTBX	AFUc00550				1.3E-42			
25757	ENU09552	ANI61C5373:6..1136			GTBX	AFUc08943				2.9E-89			
25758	ENU09553	ANI61C5376:55..480			GTBX	AFUc05917				7.3E-30			
25759	ENU09554	ANI61C3920:2247..56			GTBX	"AFUc17196, AFUc18488, AFUc18488, FGRc00704, Y13134"				"1.3e-71, 3.5e-44, 3.5e-75, 2.7e-29, 1.3e-68"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25760	ENU09555	ANI61C4650:1372..2			GTBX	"AFUc14849, FGRc00854"				"3.1e-10, 6.0e-32"			
25761	ENU09556	ANI61C4651:870..50			GTBX	"AFUc22660, FGRc07303"				"6.5e-29, 3.2e-52"			
25762	ENU09557	ANI61C4652:752..2207			GTBX	AFUc14076				8.4E-46			
25763	ENU09558	ANI61C5381:1004..492			GTBX	AFUc03475				4.2E-51			
25764	ENU09559	ANI61C3925:218..802			GTBX	AFUc15140				9.4E-57			
25765	ENU09560	ANI61C5385:1551..1769			GTBX	AFUc07950				2.4E-42			
25766	ENU09561	ANI61C4657:4223..6270			GTBX	"AFUc11820, AFUc12573, AFUc14610, Y13135"				"5.1e-145, 4.5e-84, 1.4e-15, 2.0e-98"			
25767	ENU09562	ANI61C3929:514..28			GTBX	AFUc01963				1.3E-45			
25768	ENU09563	ANI61C5387:1209..723			GTBX	FGRc03431				5.6E-46			
25769	ENU09564	ANI61C4659:1012..1228			GTBX	AFUc14550				3.7E-25			
25770	ENU09565	ANI61C5388:2432..2081			GTBX	"AFUc11974, AFUc14576"				"3.6e-40, 2.4e-67"			
25771	ENU09566	ANI61C5389:97..686			GTBX	AFUc10526				1.7E-51			
25772	ENU09567	ANI61C4663:149..637			GTBX	AFUc14674				1.6E-25			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25773	ENU09568	ANI61C5396:1207..3398			GTBX	"AFUc05105, AFUc11030, FGRc07318"				"1.0e-81, 2.1e-79, 3.6e-124"			
25774	ENU09569	ANI61C4667:422..34			GTBX	FGRc10474				2.6E-26			
25775	ENU09570	ANI61C4669:6..968			GTBX	"AFUc09487, FGRc08263"				"2.3e-103, 3.5e-33"			
25776	ENU09571	ANI61C5399:1944..519			GTBX	AFUc15972				5.6E-33			
25777	ENU09572	ANI61C4672:742..473			GTBX	AFUc13983				3.2E-32			
25778	ENU09573	ANI61C3953:2205..895			GTBX	"AFUc00630, AFUc16315"				"2.5e-36, 8.9e-30"			
25779	ENU09574	ANI61C4683:435..36			GTBX	AFUc11129				3.4E-35			
25780	ENU09575	ANI61C3956:1317..362			GTBX	"AFUc15086, Y13138"				"6.9e-43, 3.0e-21"			
25781	ENU09576	ANI61C3965:2616..2940			GTBX	AFUc14919				3.5E-65			
25782	ENU09577	ANI61C3966:924..1			GTBX	"AFUc19250, Y13138"				"1.7e-18, 1.8e-36"			
25783	ENU09578	ANI61C4698:651..1923			GTBX	"AFUc13453, FGRc11821"				"2.6e-83, 2.5e-47"			
25784	ENU09579	ANI61C3971:1048..34			GTBX	"AFUc00727, AFUc21727"				"1.9e-90, 5.3e-42"			
25785	ENU09580	ANI61C3972:3639..2620			GTBX	"AFUc02588, AFUc02588"				"8.1e-28, 9.6e-37"			
25786	ENU09581	ANI61C3973:2117..461			GTBX	"AFUc19352, CALc06116"				"6.3e-14, 7.6e-171"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25787	ENU09582	ANI61C3977: 1953..643			GTBX	AFUc15344				2.9E-166			
25788	ENU09583	ANI61C3978: 843..82			GTBX	FGRc04709				6.4E-34			
25789	ENU09584	ANI61C1002: 2611..2219			GTBX	AFUc08610				1.1E-28			
25790	ENU09585	ANI61C1003: 2507..993			GTBX	"AFUc01633, AFUc19340, FGRc18569"				"1.9e-51, 1.4e-46, 1.6e-11"			
25791	ENU09586	ANI61C1014: 740..199			GTBX	AFUc02769				2E-26			
25792	ENU09587	ANI61C3992: 282..521			GTBX	AFUc20274				1.7E-29			
25793	ENU09588	ANI61C3995: 44..766			GTBX	"AFUc05280, AFUc21291"				"2.0e-14, 1.2e-43"			
25794	ENU09589	ANI61C1022: 766..454			GTBX	AFUc14424				2.6E-31			
25795	ENU09590	ANI61C1025: 556..32			GTBX	AFUc14916				7.3E-108			
25796	ENU09591	ANI61C1030: 3757..3323			GTBX	AFUc10051				9.9E-36			
25797	ENU09592	ANI61C1038: 712..1006			GTBX	"AFUc14099, FGRc00303"				"5.0e-52, 1.3e-12"			
25798	ENU09593	ANI61C1044: 1903..35			GTBX	AFUc08909				5.9E-121			
25799	ENU09594	ANI61C1052: 1095..102			GTBX	"AFUc03916, AFUc06334"				"2.8e-32, 5.4e-26"			
25800	ENU09595	ANI61C1053: 618..115			GTBX	AFUc12163				8.2E-69			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25801	ENU09596	ANI61C1056:1..606			GTBX	"AFUc17783, CALc05720"				"7.4e-44, 8.3e-23"			
25802	ENU09597	ANI61C1058:2606..2340			GTBX	AFUc12718				4.7E-23			
25803	ENU09598	ANI61C1069:4950..5330			GTBX	AFUc15622				1.1E-58			
25804	ENU09599	ANI61C9702:2851..385			GTBX	"AFUc18380, CALc02515, U00092"				"8.9e-49, 7.3e-93, 1.5e-284"			
25805	ENU09600	ANI61C9702:4461..4919			GTBX	AFUc10199				1.4E-80			
25806	ENU09601	ANI61C9706:4861..6696			GTBX	"CALc05544, Y13137"				"3.8e-234, 3.7e-307"			
25807	ENU09602	ANI61C9717:419..1280			GTBX	"AFUc05673, AFUc07215"				"1.5e-31, 4.4e-123"			
25808	ENU09603	ANI61C9718:618..277			GTBX	AFUc18240				3E-31			
25809	ENU09604	ANI61C1084:317..835			GTBX	AFUc14920				1.2E-23			
25810	ENU09605	ANI61C9720:356..1467			GTBX	"AFUc12550, CALc05628"				"3.7e-168, 1.6e-21"			
25811	ENU09606	ANI61C1095:4166..4419			GTBX	"AFUc03966, FGRC09117"				"2.2e-32, 1.5e-10"			
25812	ENU09607	ANI61C9733:2309..2918			GTBX	AFUc14559				2.3E-43			
25813	ENU09608	ANI61C9738:3327..3604			GTBX	AFUc06208				4.3E-24			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25814	ENU09609	ANI61C9739: 7440..7764			GTBX	AFUc20780				3E-49			
25815	ENU09610	ANI61C9743: 1418..873			GTBX	"CALc05775, FGRc05013"				"2.8e-60, 1.9e-26"			
25816	ENU09611	ANI61C9752: 1283..51			GTBX	"AFUc14599, CALc02009"				"8.4e-132, 1.9e-07"			
25817	ENU09612	ANI61C9760: 3667..4155			GTBX	AFUc07682				1.8E-31			
25818	ENU09613	ANI61C9760: 5872..4366			GTBX	"AFUc07479, Y13134"				"2.6e-66, 1.2e-55"			
25819	ENU09614	ANI61C9769: 120..994			GTBX	AFUc07018				5.2E-44			
25820	ENU09615	ANI61C9773: 1037..200			GTBX	"AFUc08480, FGRc23544"				"3.2e-16, 1.7e-34"			
25821	ENU09616	ANI61C9775: 1364..2760			GTBX	"AFUc06544, AFUc15485"				"3.2e-35, 6.5e-73"			
25822	ENU09617	ANI61C9790: 415..3897			GTBX	"AFUc02169, AFUc12397, CALc01597, CALc04669"				"2.0e-70, 2.3e-252, 5.0e-19, 9.6e-114"			
25823	ENU09618	ANI61C9792: 540..156			GTBX	AFUc09788				5.2E-45			
25824	ENU09619	ANI61C9794: 3349..2897			GTBX	AFUc09569				1.8E-27			
25825	ENU09620	ANI61C6100: 325..100			GTBX	AFUc06484				2.5E-26			

Geneious Desktop

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25826	ENU09621	ANI61C6108: 208..1945			GTBX	"AFUc10825, AFUc14691, AFUc15224, FGRc16414"				"1.7e-54, 3.0e-53, 8.0e-14, 1.4e-14"			
25827	ENU09622	ANI61C6109: 214..997			GTBX	AFUc09931				2.5E-48			
25828	ENU09623	ANI61C6112: 975..84			GTBX	FGRc04110				5.3E-71			
25829	ENU09624	ANI61C6113: 8..928			GTBX	CALc05352				1.3E-80			
25830	ENU09625	ANI61C6129: 423..1525			GTBX	AFUc07714				4.2E-24			
25831	ENU09626	ANI61S4500: 363..67			GTBX	FGRc05103				5.8E-49			
25832	ENU09627	ANI61C6132: 403..107			GTBX	AFUc01942				1.4E-51			
25833	ENU09628	ANI61S4517: 45..440			GTBX	Y13135				1.5e-38			
25834	ENU09629	ANI61C6140: 51..1322			GTBX	"AFUc00820, Z71256"				"9.1e-23, 8.7e-11"			
25835	ENU09630	ANI61C6142: 1192..107			GTBX	"AFUc05916, CALc05479"				"2.5e-37, 3.4e-110"			
25836	ENU09631	ANI61C6146: 1590..2326			GTBX	"AFUc04896, AFUc05822, FGRc10423"				"1.9e-28, 1.8e-07, 2.7e-13"			
25837	ENU09632	ANI61C5425: 702..94			GTBX	AFUc07579				3.8E-31			
25838	ENU09633	ANI61C6154: 702..1596			GTBX	"AFUc01051, FGRc10010"				"1.2e-18, 1.3e-21"			
25839	ENU09634	ANI61C5426: 761..12			GTBX	"AFUc04407, FGRc10921"				"9.8e-61, 2.0e-47"			

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25840	ENU09635	ANI61C6157: 2088..1205			GTBX	AFUc14533				6.7E-30			
25841	ENU09636	ANI61C4701: 814..374			GTBX	"AFUc05559, FGRc08592"				"3.7e-89, 2.2e-25"			
25842	ENU09637	ANI61C5430: 1315..803			GTBX	AFUc10737				1.5E-23			
25843	ENU09638	ANI61C4705: 15..1511			GTBX	AFUc13476				2.4E-72			
25844	ENU09639	ANI61C5435: 95..861			GTBX	AFUc14400				1.5E-50			
25845	ENU09640	ANI61C5440: 1234..15			GTBX	U00093				1.4e-111			
25846	ENU09641	ANI61C4712: 606..1352			GTBX	AFUc01145				6.8E-39			
25847	ENU09642	ANI61C6171: 1210..226			GTBX	AFUc15787				5.9E-33			
25848	ENU09643	ANI61C5442: 1738..1020			GTBX	AFUc02895				1.5E-36			
25849	ENU09644	ANI61C5444: 320..668			GTBX	AFUc15322				1E-37			
25850	ENU09645	ANI61C4716: 3235..3650			GTBX	AFUc13372				5.7E-52			
25851	ENU09646	ANI61C5449: 3..537			GTBX	AFUc15317				1.1E-27			
25852	ENU09647	ANI61S3822: 109..415			GTBX	AFUc05500				4.6E-31			
25853	ENU09648	ANI61C4720: 32..475			GTBX	AFUc04498				5E-36			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25854	ENU09649	ANI61C4721: 1773..2670			GTBX	"AFUc08234, AFUc14268"				"1.9e-74, 1.0e-48"			
25855	ENU09650	ANI61C5451: 502..849			GTBX	AFUc21338				2.5E-22			
25856	ENU09651	ANI61C6182: 644..27			GTBX	FGRc06110				2.7E-37			
25857	ENU09652	ANI61C5454: 2..340			GTBX	AFUc06221				5.1E-45			
25858	ENU09653	ANI61C4727: 336..664			GTBX	AFUc12008				4.4E-39			
25859	ENU09654	ANI61C5456: 1126..55			GTBX	"AFUc16901, FGRc10006"				"4.9e-21, 4.5e-14"			
25860	ENU09655	ANI61C6187: 1320..540			GTBX	"AFUc09040, AFUc14490"				"2.5e-144, 3.4e-13"			
25861	ENU09656	ANI61C5458: 571..1412			GTBX	"AFUc07396, AFUc11792, AFUc14619"				"1.9e-11, 1.6e-55, 1.6e-48"			
25862	ENU09657	ANI61C4730: 1349..868			GTBX	"AFUc14839, CALc04948"				"1.1e-22, 1.2e-46"			
25863	ENU09658	ANI61C6190: 1..462			GTBX	AFUc13184				4.5E-69			
25864	ENU09659	ANI61C5464: 911..132			GTBX	"AFUc06054, AFUc20036"				"3.2e-21, 5.2e-22"			
25865	ENU09660	ANI61C4738: 666..33			GTBX	AFUc14106				2.7E-62			
25866	ENU09661	ANI61C4739: 859..2			GTBX	AFUc11624				5.2E-105			
25867	ENU09662	ANI61C6199: 909..1228			GTBX	AFUc13777				4.2E-61			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25868	ENU09663	ANI61C4741: 506..156			GTBX	AFUc22120				1.9E-25			
25869	ENU09664	ANI61C4742: 738..94			GTBX	AFUc10405				1.3E-96			
25870	ENU09665	ANI61C5472: 1135..1935			GTBX	AFUc05296				9E-52			
25871	ENU09666	ANI61C5475: 13..408			GTBX	"AFUc01962, AFUc11850"				"1.8e-20, 2.2e-21"			
25872	ENU09667	ANI61C5475: 1314..662			GTBX	AFUc01962				2.5E-26			
25873	ENU09668	ANI61C4748: 1215..2511			GTBX	AFUc14868				1.2E-119			
25874	ENU09669	ANI61C5479: 620..144			GTBX	AFUc11381				8.9E-37			
25875	ENU09670	ANI61C5479: 1189..2303			GTBX	"AFUc08610, AFUc16734"				"1.5e-107, 1.5e-17"			
25876	ENU09671	ANI61C4756: 407..33			GTBX	AFUc02287				2.2E-21			
25877	ENU09672	ANI61S3867: 266..498			GTBX	AFUc14997				1.3E-26			
25878	ENU09673	ANI61C4761: 56..845			GTBX	AFUc02466				1.2E-26			
25879	ENU09674	ANI61S3872: 446..65			GTBX	AFUc02766				3.3E-42			
25880	ENU09675	ANI61C4771: 1109..62			GTBX	AFUc11383				2.2E-125			
25881	ENU09676	ANI61C4786: 876..135			GTBX	"AFUc15660, FGRc09694"				"4.3e-41, 5.1e-29"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25882	ENU09677	ANI61C4789: 204..437			GTBX	Y13134				2.5e-14			
25883	ENU09678	ANI61C4789: 1071..690			GTBX	AFUc13817				1.1E-44			
25884	ENU09679	ANI61C4797: 319..2529			GTBX	"AFUc09124, AFUc09640, AFUc18058"				"2.2e-78, 8.8e-38, 8.5e-29"			
25885	ENU09680	ANI61C1103: 26..999			GTBX	FGRc09135				2.7E-37			
25886	ENU09681	ANI61C1105: 13..573			GTBX	"AFUc15843, U00094"				"6.4e-87, 2.8e-40"			
25887	ENU09682	ANI61C1111: 5900..6720			GTBX	"AFUc00779, FGRc22503"				"3.0e-09, 4.3e-35"			
25888	ENU09683	ANI61C1120: 10231..12501			GTBX	"AFUc03712, AFUc18769, CALc03518, FGRc12834, FGRc20309"				"1.2e-22, 8.1e-09, 2.3e-56, 3.5e-13, 6.6e-17"			
25889	ENU09684	ANI61C1121: 4847..3694			GTBX	Y13134				1.3e-41			
25890	ENU09685	ANI61C1123: 2959..23			GTBX	"AFUc00718, AFUc10854, AFUc11508, Z71256"				"2.0e-58, 5.5e-76, 2.5e-19, 1.8e-109"			
25891	ENU09686	ANI61C1126: 2054..1083			GTBX	"AFUc10316, AFUc22327"				"9.7e-40, 5.8e-17"			
25892	ENU09687	ANI61C1132: 3362..6968			GTBX	"AFUc08048, AFUc09981, FGRc03735, Y13136"				"2.3e-128, 4.6e-111, 5.8e-73, 4.3e-166"			

Contig "CE310160"

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25893	ENU09688	ANI61C1132: 7960..8202			GTBX	AFUc12080				3.2E-39			
25894	ENU09689	ANI61C1133: 3701..5484			GTBX	"AFUc16469, Y13137"				"9.6e-37, 1.2e-44"			
25895	ENU09690	ANI61C1133: 6897..5740			GTBX	FGRc03896				5.8E-55			
25896	ENU09691	ANI61C1138: 12140..10469			GTBX	"AFUc13136, CALc04542"				"8.4e-121, 3.5e-38"			
25897	ENU09692	ANI61C1141: 1383..1990			GTBX	"AFUc22467, FGRc06420"				"1.9e-71, 5.1e-08"			
25898	ENU09693	ANI61C1142: 1359..266			GTBX	AFUc15387				2.7E-96			
25899	ENU09694	ANI61C1145: 338..979			GTBX	"AFUc21496, Y131340"				"2.0e-58, 1.8e-12"			
25900	ENU09695	ANI61C1147: 3448..4162			GTBX	"AFUc06122, CALc05976, FGRc03662"				"1.7e-27, 4.0e-52, 7.5e-53"			
25901	ENU09696	ANI61C1156: 7493..7059			GTBX	AFUc13989				5.7E-25			
25902	ENU09697	ANI61C1161: 553..281			GTBX	FGRc16793				1.1E-44			
25903	ENU09698	ANI61C9802: 3878..2312			GTBX	"FGRc12359, FGRc26682, Y13140"				"5.3e-08, 5.2e-13, 4.4e-67"			
25904	ENU09699	ANI61C9804: 1241..151			GTBX	AFUc03380				2E-46			
25905	ENU09700	ANI61C1178: 878..53			GTBX	AFUc03777				3.4E-26			
25906	ENU09701	ANI61C9810: 1756..1256			GTBX	FGRc23086				1.1E-24			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25907	ENU09702	ANI61C1180: 1196..2056			GTBX	FGRc06851				1.5E-60			
25908	ENU09703	ANI61C1183: 2237..21			GTBX	"AFUc10035, FGRc20878, Y13136"				"2.1e-170, 2.6e-21, 1.1e-68"			
25909	ENU09704	ANI61C1186: 5213..806			GTBX	"AFUc15897, CALc05493"				"0.0, 2.6e-30"			
25910	ENU09705	ANI61C1187: 4140..5351			GTBX	AFUc08928				8.4E-43			
25911	ENU09706	ANI61C1189: 7785..6298			GTBX	"AFUc04073, AFUc20231, AFUc21886"				"1.2e-45, 5.9e-08, 2.4e-27"			
25912	ENU09707	ANI61C9824: 5113..4670			GTBX	AFUc13521				8.2E-33			
25913	ENU09708	ANI61C9826: 1..1518			GTBX	AFUc15367				1.7E-184			
25914	ENU09709	ANI61C9830: 1703..409			GTBX	CALc05806				2.4E-131			
25915	ENU09710	ANI61C9830: 5218..4379			GTBX	AFUc09714				8.1E-24			
25916	ENU09711	ANI61C9834: 6571..7561			GTBX	"AFUc11109, AFUc17602, FGRc08107"				"3.5e-28, 2.1e-19, 6.1e-18"			
25917	ENU09712	ANI61C9836: 947..226			GTBX	"AFUc14827, CALc04616"				"2.2e-16, 3.8e-23"			
25918	ENU09713	ANI61C9839: 611..879			GTBX	AFUc08740				8.4E-22			
25919	ENU09714	ANI61C9847: 1986..2857			GTBX	"AFUc11344, AFUc11344"				"2.9e-45, 4.7e-53"			
25920	ENU09715	ANI61C9847: 4264..3095			GTBX	"AFUc12331, AFUc21805"				"4.6e-31, 6.7e-19"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25921	ENU09716	ANI61C9847: 9285..10497			GTBX	FGRc11572				9.4E-41			
25922	ENU09717	ANI61C9854: 365..63			GTBX	AFUc20068				2.7E-30			
25923	ENU09718	ANI61C9864: 1801..2743			GTBX	AFUc15416				9.7E-198			
25924	ENU09719	ANI61C9871: 463..701			GTBX	AFUc15546				1.5E-69			
25925	ENU09720	ANI61C9873: 496..2			GTBX	AFUc14820				2.7E-81			
25926	ENU09721	ANI61C9876: 2029..906			GTBX	AFUc13760				2.8E-81			
25927	ENU09722	ANI61C9880: 3365..1981			GTBX	"AFUc06015, FGRc12116"				"6.3e-24, 8.9e-29"			
25928	ENU09723	ANI61C9892: 1057..687			GTBX	"AFUc11408, FGRc01592"				"1.4e-98, 8.4e-10"			
25929	ENU09724	ANI61C6203: 10275..11138			GTBX	AFUc13995				4.9E-165			
25930	ENU09725	ANI61C6205: 2078..1213			GTBX	"AFUc15242, D50617"				"6.6e-108, 1.2e-84"			
25931	ENU09726	ANI61C6213: 2259..580			GTBX	"AFUc02451, AFUc09901, CALc05142, Y13135"				"1.5e-95, 2.4e-19, 6.3e-09, 1.5e-07"			
25932	ENU09727	ANI61C6227: 4483..3758			GTBX	"AFUc03527, AFUc20765"				"2.4e-18, 3.1e-27"			
25933	ENU09728	ANI61C5506: 2022..3044			GTBX	AFUc15489				3.2E-126			
25934	ENU09729	ANI61C5507: 3470..3854			GTBX	AFUc11680				1.2E-40			

GeneWise Gene Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25935	ENU09730	ANI61C6240: 4..483			GTBX	AFUc01334				5.8E-38			
25936	ENU09731	ANI61C6242: 666..250			GTBX	AFUc06832				1.6E-47			
25937	ENU09732	ANI61S4625: 238..496			GTBX	AFUc15836				9.8E-28			
25938	ENU09733	ANI61C6254: 2036..2560			GTBX	"AFUc10347, AFUc15031"				"1.5e-22, 8.3e-54"			
25939	ENU09734	ANI61C5528: 608..123			GTBX	AFUc13043				7.6E-58			
25940	ENU09735	ANI61C4801: 1188..1772			GTBX	"AFUc01206, AFUc07147, FGRC12821"				"5.6e-24, 2.1e-35, 2.8e-09"			
25941	ENU09736	ANI61C5537: 605..147			GTBX	AFUc15430				3.2E-31			
25942	ENU09737	ANI61C5537: 2786..2061			GTBX	AFUc15185				2.5E-68			
25943	ENU09738	ANI61C5542: 168..530			GTBX	AFUc06476				1.8E-33			
25944	ENU09739	ANI61C4816: 33..461			GTBX	AFUc05360				3.4E-35			
25945	ENU09740	ANI61C5549: 615..1013			GTBX	AFUc05565				7.1E-81			
25946	ENU09741	ANI61C5552: 851..93			GTBX	AFUc14753				2.7E-74			
25947	ENU09742	ANI61C6284: 673..325			GTBX	AFUc09678				2.5E-26			
25948	ENU09743	ANI61S3933: 9..233			GTBX	AFUc11585				7.4E-25			

Geneious Community Edition

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25949	ENU09744	ANI61C4831: 45..475			GTBX	AFUc13810				3.2E-49			
25950	ENU09745	ANI61C4836: 1112..15			GTBX	AFUc03302				8.9E-93			
25951	ENU09746	ANI61C4837: 4..586			GTBX	AFUc08292				1.2E-92			
25952	ENU09747	ANI61C6297: 2743..3635			GTBX	"AFUc06848, Y13139"				"1.9e-76, 1.2e-25"			
25953	ENU09748	ANI61C6299: 1417..1637			GTBX	AFUc13847				2.2E-59			
25954	ENU09749	ANI61C4840: 108..974			GTBX	AFUc13509				1.9E-118			
25955	ENU09750	ANI61C4849: 942..589			GTBX	FGRc13511				4.8E-29			
25956	ENU09751	ANI61C5582: 44..732			GTBX	CALc06150				6.4E-21			
25957	ENU09752	ANI61C5583: 569..3			GTBX	AFUc20430				1.7E-25			
25958	ENU09753	ANI61C5586: 1296..2030			GTBX	"AFUc06713, FGRc18425"				"4.0e-57, 1.3e-09"			
25959	ENU09754	ANI61C4862: 2887..2038			GTBX	AFUc07470				1.2E-33			
25960	ENU09755	ANI61C4866: 1044..484			GTBX	"AFUc08653, AFUc18008"				"7.0e-62, 1.6e-41"			
25961	ENU09756	ANI61C5596: 623..42			GTBX	AFUc15561				6.3E-42			
25962	ENU09757	ANI61C5598: 478..113			GTBX	Y13137				1.3e-25			

GenBank Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25963	ENU09758	ANI61C4874:1487..111			GTBX	AFUc15142				1.4E-124			
25964	ENU09759	ANI61C4879:1881..1163			GTBX	AFUc08813				1.9E-66			
25965	ENU09760	ANI61C4881:1028..1734			GTBX	FGRc13484				4E-30			
25966	ENU09761	ANI61C4882:214..776			GTBX	AFUc06352				2.3E-48			
25967	ENU09762	ANI61C4884:511..101			GTBX	FGRc04402				1.5E-33			
25968	ENU09763	ANI61C4887:1783..1230			GTBX	AFUc15282				6.9E-57			
25969	ENU09764	ANI61C4897:374..1395			GTBX	"AFUc07714, AFUc07747, AFUc11389"				"2.0e-10, 2.8e-32, 5.6e-36"			
25970	ENU09765	ANI61C4899:258..1409			GTBX	"AFUc12154, FGRc02884"				"3.8e-21, 3.2e-11"			
25971	ENU09766	ANI61S1039:442..14			GTBX	Y13140				3.5e-39			
25972	ENU09767	ANI61C1205:437..87			GTBX	AFUc15751				1.5E-53			
25973	ENU09768	ANI61C1208:6391..8168			GTBX	"AFUc08640, AFUc14702"				"2.8e-95, 4.5e-16"			
25974	ENU09769	ANI61C1208:8761..10056			GTBX	"AFUc13639, CALc06164"				"5.6e-119, 2.5e-26"			
25975	ENU09770	ANI61C1000:6:478..14			GTBX	AFUc08460				9.9E-21			
25976	ENU09771	ANI61C1000:7:188..676			GTBX	AFUc00879				2.6E-34			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
25977	ENU09772	ANI61C1217: 5382..4258			GTBX	AFUc09190				1.7E-68			
25978	ENU09773	ANI61C1001 1:255..7			GTBX	AFUc14823				7.3E-47			
25979	ENU09774	ANI61C1001 5:731..2197			GTBX	AFUc09627				4.7E-29			
25980	ENU09775	ANI61C1223: 2975..2406			GTBX	AFUc10564				1.9E-37			
25981	ENU09776	ANI61C1226: 511..4			GTBX	AFUc15919				1.7E-35			
25982	ENU09777	ANI61C1227: 1799..965			GTBX	"AFUc15619, FGRc18463"				"3.6e-52, 2.4e-39"			
25983	ENU09778	ANI61C1229: 12629..13750			GTBX	"AFUc08495, AFUc15892"				"1.5e-57, 1.2e-44"			
25984	ENU09779	ANI61C1002 0:14..511			GTBX	"AFUc18869, CALc02488"				"1.1e-74, 5.1e-52"			
25985	ENU09780	ANI61C1002 5:1419..2136			GTBX	"AFUc11304, AFUc11498, AFUc15909"				"7.6e-27, 3.8e-36, 2.4e-40"			
25986	ENU09781	ANI61C1002 6:2060..4211			GTBX	"AFUc09022, AFUc11200, FGRc09828"				"1.1e- 155, 3.6e-09, 7.7e-30"			
25987	ENU09782	ANI61C1002 8:8..556			GTBX	FGRc10845				7.3E-23			
25988	ENU09783	ANI61C1234: 698..264			GTBX	FGRc03585				2.7E-22			
25989	ENU09784	ANI61C1236: 3294..247			GTBX	"CALc05504, CALc05504, FGRc10685"				"1.1e- 166, 4.4e- 172, 1.0e-24"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
25990	ENU09785	ANI61C1003 9:78..593			GTBX	AFUc04205				2.2E-29			
25991	ENU09786	ANI61C1243: 76..647			GTBX	AFUc14226				2.2E-47			
25992	ENU09787	ANI61C1244: 639..205			GTBX	AFUc10187				4.6E-49			
25993	ENU09788	ANI61C1004 3:638..1321			GTBX	AFUc11890				3.5E-128			
25994	ENU09789	ANI61C1004 3:4533..1878			GTBX	"AFUc18915, AFUc22245, CALc06125"				"2.9e-37, 5.4e-55, 6.3e-86"			
25995	ENU09790	ANI61S1082: 533..81			GTBX	"AFUc14265, AFUc15053, CALc06148"				"3.6e-09, 1.1e-45, 1.8e-46"			
25996	ENU09791	ANI61C1004 8:1235..1896			GTBX	"AFUc17530, AFUc21626"				"9.1e-23, 4.6e-18"			
25997	ENU09792	ANI61S1086: 306..22			GTBX	AFUc10933				2.8E-39			
25998	ENU09793	ANI61C1250: 965..442			GTBX	AFUc02186				2.9E-64			
25999	ENU09794	ANI61C1251: 435..235			GTBX	AFUc05890				1.8E-31			
26000	ENU09795	ANI61C1460: 658..362			TBX	AFUc04191				1.4E-57			
26001	ENU09796	ANI61C1026 8:2016..2441			TBX	AFUc05348				1.5E-36			
26002	ENU09797	ANI61C1472: 2305..2820			TBX	AFUc15503				3.8E-62			
26003	ENU09798	ANI61C1473: 744..469			TBX	AFUc05026				1.1E-51			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26004	ENU09799	ANI61C1473:1063..845			TBX	AFUc05026				1.1E-51			
26005	ENU09800	ANI61C1027 6:1572..2084			TBX	AFUc13815				6.7E-37			
26006	ENU09801	ANI61C1484:2614..3107			TBX	AFUc22069				3.7E-37			
26007	ENU09802	ANI61C1028 2:741..950			TBX	AFUc14473				1.3E-129			
26008	ENU09803	ANI61C1028 3:939..666			TBX	AFUc10944				7.2E-84			
26009	ENU09804	ANI61C1028 9:873..166			TBX	AFUc14293				3.4E-59			
26010	ENU09805	ANI61C322:2 318..2686			TBX	Y13138				1.7e-18			
26011	ENU09806	ANI61C349:9 981..9772			TBX	AFUc08818				8.1E-69			
26012	ENU09807	ANI61C352:5 292..5651			TBX	AFUc05906				1.5E-41			
26013	ENU09808	ANI61C363:3 04..2			TBX	CALc02816				1.9E-35			
26014	ENU09809	ANI61C7202:134..361			TBX	AFUc14285				1E-31			
26015	ENU09810	ANI61C7216:1390..1924			TBX	"AFUc11696, AFUc11696"				"1.7e-61, 4.9e-33"			
26016	ENU09811	ANI61C7219:2645..2310			TBX	AFUc09975				1.4E-59			
26017	ENU09812	ANI61C385:4 260..4942			TBX	AFUc12528				2.5E-53			

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26018	ENU09813	ANI61C388:4 66..64			TBX	AFUc20119				1.2E-55			
26019	ENU09814	ANI61C7223: 2972..2172			TBX	AFUc06424				1.1E-58			
26020	ENU09815	ANI61C7224: 4437..4850			TBX	AFUc12875				3.1E-88			
26021	ENU09816	ANI61C7236: 1466..1086			TBX	AFUc18591				3.4E-42			
26022	ENU09817	ANI61C7238: 680..344			TBX	AFUc09528				2.5E-45			
26023	ENU09818	ANI61C7238: 1092..832			TBX	AFUc09528				2.5E-45			
26024	ENU09819	ANI61C7271: 1132..605			TBX	AFUc06636				2.4E-38			
26025	ENU09820	ANI61C7272: 1371..1610			TBX	AFUc07449				1.1E-44			
26026	ENU09821	ANI61C5818: 881..339			TBX	AFUc08233				7.7E-38			
26027	ENU09822	ANI61S204:4 81..27			TBX	FGRc12216				3.7E-40			
26028	ENU09823	ANI61C7285: 8248..8667			TBX	AFUc15172				4.4E-69			
26029	ENU09824	ANI61C5830: 16..802			TBX	AFUc08094				2.6E-48			
26030	ENU09825	ANI61C6560: 32..1156			TBX	AFUc13931				1.4E-79			
26031	ENU09826	ANI61C5832: 1096..497			TBX	AFUc08734				4.3E-50			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26032	ENU09827	ANI61C5833:388..56			TBX	AFUc14136				5.3E-62			
26033	ENU09828	ANI61C5839:1627..1427			TBX	FGRc09504				1.8E-33			
26034	ENU09829	ANI61C5884:2..364			TBX	AFUc15412				1.3E-35			
26035	ENU09830	ANI61C5887:983..1786			TBX	AFUc04019				2.4E-62			
26036	ENU09831	ANI61S1313:480..60			TBX	AFUc15343				2E-56			
26037	ENU09832	ANI61C2211:862..1176			TBX	AFUc14418				1.1E-61			
26038	ENU09833	ANI61C2212:4052..2947			TBX	"AFUc11116, AFUc12982"				"2.5e-97, 1.1e-57"			
26039	ENU09834	ANI61C2212:4426..4133			TBX	AFUc11116				2.5E-97			
26040	ENU09835	ANI61C1103 1:2217..2515			TBX	AFUc13932				2.9E-51			
26041	ENU09836	ANI61C1030 2:13980..1419 5			TBX	AFUc15817				9.2E-172			
26042	ENU09837	ANI61C1030 2:3197..2559			TBX	AFUc13294				4.2E-40			
26043	ENU09838	ANI61C1030 2:14598..1423 3			TBX	AFUc15817				4.4E-207			
26044	ENU09839	ANI61C1103 2:5852..6235			TBX	"AFUc15294, AFUc22376, AFUc22376"				"1.1e-91, 2.0e-08, 3.0e-18"			
26045	ENU09840	ANI61C1103 7:2465..2914			TBX	AFUc01826				7.6E-34			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26046	ENU09841	ANI61C2243: 321..63			TBX	AFUc04253				4.2E-93			
26047	ENU09842	ANI61C1031 8:6871..7170			TBX	AFUc08903				3E-41			
26048	ENU09843	ANI61C2250: 27..410			TBX	AFUc14478				8.6E-55			
26049	ENU09844	ANI61C1032 1:4802..5332			TBX	AFUc13535				1.4E-70			
26050	ENU09845	ANI61C1105 1:1650..1889			TBX	AFUc15849				3.5E-49			
26051	ENU09846	ANI61C1105 6:1..393			TBX	AFUc10621				4E-68			
26052	ENU09847	ANI61S1369: 2..411			TBX	AFUc15183				1.2E-41			
26053	ENU09848	ANI61C1033 0:13..225			TBX	FGRc08647				3.6E-42			
26054	ENU09849	ANI61C1033 5:2001..2270			TBX	AFUc11528				6E-153			
26055	ENU09850	ANI61C1106 5:1976..3091			TBX	AFUc12698				1.3E-138			
26056	ENU09851	ANI61C1033 8:652..1062			TBX	AFUc15802				5.7E-81			
26057	ENU09852	ANI61C1034 3:382..104			TBX	AFUc15194				1.2E-194			
26058	ENU09853	ANI61C1555: 1459..1665			TBX	AFUc09094				2.2E-48			
26059	ENU09854	ANI61S1393: 3..350			TBX	AFUc11981				8.7E-34			

Sequence Alignment

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26060	ENU09855	ANI61C1035 7:2937..1118			TBX	"AFUc10516, AFUc13253"				"1.4e-96, 1.1e-16"			
26061	ENU09856	ANI61C1035 8:2452..2676			TBX	AFUc21007				4.8E-39			
26062	ENU09857	ANI61S1397: 31..342			TBX	AFUc15972				6.6E-38			
26063	ENU09858	ANI61C1564: 1067..1316			TBX	AFUc03100				1.6E-71			
26064	ENU09859	ANI61C1036 0:1291..1680			TBX	AFUc05803				7.4E-36			
26065	ENU09860	ANI61C1036 0:3349..3570			TBX	AFUc13299				2.7E-142			
26066	ENU09861	ANI61C1036 0:385..1			TBX	AFUc15643				5.5E-39			
26067	ENU09862	ANI61C1036 0:3316..3017			TBX	AFUc13299				1.5E-150			
26068	ENU09863	ANI61C1109 9:1051..1761			TBX	AFUc13178				1.2E-56			
26069	ENU09864	ANI61C1109 9:10567..1015 4			TBX	"AFUc04105, FGRc12288"				"3.7e-16, 1.1e-57"			
26070	ENU09865	ANI61C403:1 218..1006			TBX	AFUc02462				1.9E-60			
26071	ENU09866	ANI61C1037 0:104..925			TBX	AFUc11594				1.7E-49			
26072	ENU09867	ANI61C1585: 92..490			TBX	AFUc15700				3.3E-38			
26073	ENU09868	ANI61C410:7 738..8487			TBX	"AFUc04942, AFUc11941, CALc04450"				"1.1e-67, 1.3e-34, 3.5e-29"			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26074	ENU09869	ANI61C412:1 440..1774			TBX	AFUc05418				3.7E-70			
26075	ENU09870	ANI61C412:6 523..6927			TBX	AFUc11022				4.3E-57			
26076	ENU09871	ANI61C412:7 008..7352			TBX	AFUc11022				4.3E-57			
26077	ENU09872	ANI61C1038 6:1631..1945			TBX	AFUc10295				1E-42			
26078	ENU09873	ANI61C1038 6:1945..2298			TBX	AFUc10295				1E-42			
26079	ENU09874	ANI61C1038 7:55..495			TBX	AFUc15010				5.6E-58			
26080	ENU09875	ANI61C1593: 241..771			TBX	AFUc02879				6.4E-48			
26081	ENU09876	ANI61C425:5 20..95			TBX	AFUc15422				1.5E-38			
26082	ENU09877	ANI61C431:3 2..613			TBX	AFUc03600				1.3E-33			
26083	ENU09878	ANI61C433:3 511..3186			TBX	CALc05879				9E-80			
26084	ENU09879	ANI61C8004: 2247..1915			TBX	AFUc12803				1.8E-113			
26085	ENU09880	ANI61C445:2 3..278			TBX	Y13139				5.9e-57			
26086	ENU09881	ANI61C8028: 409..2			TBX	Y13137				5.9e-75			
26087	ENU09882	ANI61C8033: 60..272			TBX	Z71256				2.7e-59			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26088	ENU09883	ANI61C7309: 548..3			TBX	AFUc12240				2.7E-59			
26089	ENU09884	ANI61C7317: 2202..1795			TBX	FGRc01319				1.5E-44			
26090	ENU09885	ANI61C7317: 2579..2337			TBX	AFUc11246				7E-49			
26091	ENU09886	ANI61C7318: 1943..1584			TBX	AFUc11373				1.3E-32			
26092	ENU09887	ANI61C481:8 0..589			TBX	AFUc14011				5.6E-45			
26093	ENU09888	ANI61C8051: 469..212			TBX	CALc04459				3E-62			
26094	ENU09889	ANI61C8051: 6074..5853			TBX	Z71256				1.2e-82			
26095	ENU09890	ANI61C8053: 2264..2734			TBX	AFUc14405				2E-57			
26096	ENU09891	ANI61C499:7 22..455			TBX	AFUc09357				1.1E-68			
26097	ENU09892	ANI61C7331: 4599..4327			TBX	AFUc15784				3E-39			
26098	ENU09893	ANI61C6614: 1629..1394			TBX	AFUc15221				1.2E-142			
26099	ENU09894	ANI61C6621: 1600..1818			TBX	CALc06130				4.9E-55			
26100	ENU09895	ANI61C8084: 3162..3470			TBX	AFUc15749				8.8E-31			
26101	ENU09896	ANI61C8085: 96..612			TBX	AFUc17865				1.2E-53			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26102	ENU09897	ANI61C7356: 26..235			TBX	AFUc14910				7.6E-172			
26103	ENU09898	ANI61C8087: 771..1			TBX	AFUc12758				4.4E-32			
26104	ENU09899	ANI61C6632: 431..192			TBX	AFUc06255				5.4E-64			
26105	ENU09900	ANI61C7365: 8009..7809			TBX	AFUc05380				1.5E-42			
26106	ENU09901	ANI61C5911: 1563..1063			TBX	AFUc14011				1.3E-36			
26107	ENU09902	ANI61C6644: 572..294			TBX	AFUc15344				4.4E-98			
26108	ENU09903	ANI61C7394: 1580..1083			TBX	AFUc10645				2.5E-63			
26109	ENU09904	ANI61C7396: 6555..7882			TBX	"AFUc08731, FGRc07479"				"3.5e-64, 1.9e-59"			
26110	ENU09905	ANI61C6667: 233..10			TBX	AFUc08889				4.1E-44			
26111	ENU09906	ANI61C5941: 871..323			TBX	AFUc05668				8.3E-43			
26112	ENU09907	ANI61C6677: 395..21			TBX	AFUc12033				2.1E-47			
26113	ENU09908	ANI61C5957: 429..757			TBX	AFUc00567				2.7E-65			
26114	ENU09909	ANI61C5967: 9075..9284			TBX	FGRc11859				1.8E-32			
26115	ENU09910	ANI61S2104: 550..7			TBX	"AFUc04034, FGRc16556"				"2.6e-39, 1.1e-16"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	% Description
26116	ENU09911	ANI61C5978: 275..3			TBX	AFUc03602				1.2E-61			
26117	ENU09912	ANI61C3001: 411..2			TBX	AFUc15002				2.1E-49			
26118	ENU09913	ANI61C5997: 990..478			TBX	AFUc10036				1.3E-33			
26119	ENU09914	ANI61C3026: 568..11			TBX	"AFUc15479, AFUc21770"				"7.6e-22, 1.9e-35"			
26120	ENU09915	ANI61C2305: 1105..612			TBX	AFUc11158				3.1E-32			
26121	ENU09916	ANI61C1110 7:652..155			TBX	AFUc22275				1E-32			
26122	ENU09917	ANI61C1110 7:8686..8456			TBX	AFUc14504				2.9E-41			
26123	ENU09918	ANI61C3046: 869..252			TBX	AFUc09171				7.2E-40			
26124	ENU09919	ANI61C2324: 416..628			TBX	AFUc11776				3.4E-81			
26125	ENU09920	ANI61C3056: 3382..2980			TBX	"AFUc10340, CALc05472"				"1.3e-14, 4.3e-61"			
26126	ENU09921	ANI61C3062: 983..432			TBX	AFUc07103				2.5E-94			
26127	ENU09922	ANI61C2334: 764..1012			TBX	AFUc02776				5.2E-57			
26128	ENU09923	ANI61C1113 3:4764..4195			TBX	AFUc21395				4E-40			
26129	ENU09924	ANI61C1040 5:4666..4179			TBX	AFUc15972				3.2E-48			

Gene6" description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26144	ENU09939	ANI61C1118 3:581..4			TBX	AFUc07733				9.6E-52			
26145	ENU09940	ANI61C1045 5:1831..2178			TBX	AFUc13075				5.4E-56			
26146	ENU09941	ANI61C1118 5:3141..2914			TBX	AFUc13895				3.2E-107			
26147	ENU09942	ANI61C1118 6:2201..1884			TBX	AFUc13910				2.3E-33			
26148	ENU09943	ANI61C1118 9:880..1347			TBX	AFUc05827				2.1E-56			
26149	ENU09944	ANI61C1668: 961..1218			TBX	AFUc03564				5.9E-31			
26150	ENU09945	ANI61C1668: 1423..2232			TBX	"AFUc03564, AFUc19776"				"5.9e-31, 2.6e-46"			
26151	ENU09946	ANI61C1119 3:724..206			TBX	AFUc03276				6.8E-64			
26152	ENU09947	ANI61C1046 4:16..517			TBX	AFUc14564				1.5E-68			
26153	ENU09948	ANI61C508:2 833..2485			TBX	AFUc12712				2.7E-34			
26154	ENU09949	ANI61C1047 7:7766..8083			TBX	AFUc15740				3.3E-55			
26155	ENU09950	ANI61C1047 7:10845..1121 4			TBX	"AFUc13557, X59720"				"3.1e-53, 8.7e-50"			
26156	ENU09951	ANI61C1048 3:1906..2700			TBX	AFUc15804				7.7E-153			
26157	ENU09952	ANI61C1048 3:3278..3486			TBX	"AFUc15804, AFUc15804"				"4.0e- 150, 7.7e- 153"			

66666" description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
26158	ENU09953	ANI61C1048 3:999..763			TBX	AFUc06922				5.2E-89			
26159	ENU09954	ANI61C1048 7:6932..8598			TBX	"AFUc14083, AFUc15928"				"1.3e-25, 9.8e-121"			
26160	ENU09955	ANI61C1696: 1625..2005			TBX	AFUc06052				3.6E-38			
26161	ENU09956	ANI61C1699: 4320..3898			TBX	AFUc08707				3.5E-63			
26162	ENU09957	ANI61C524:3 96..830			TBX	AFUc15671				8.4E-83			
26163	ENU09958	ANI61C1049 7:6312..7257			TBX	"AFUc06170, AFUc14026"				"5.4e-36, 1.8e-70"			
26164	ENU09959	ANI61C530:6 259..5831			TBX	Z47047				4.6e-17			
26165	ENU09960	ANI61C534:7 958..7584			TBX	AFUc19364				3.5E-33			
26166	ENU09961	ANI61C539:7 80..97			TBX	AFUc09491				1.9E-69			
26167	ENU09962	ANI61C8115: 1511..57			TBX	AFUc15481				4.6E-151			
26168	ENU09963	ANI61C8119: 1234..920			TBX	AFUc08845				1.7E-82			
26169	ENU09964	ANI61C556:5 647..5390			TBX	AFUc14924				1.1E-218			
26170	ENU09965	ANI61C558:4 320..4880			TBX	AFUc14136				3E-62			
26171	ENU09966	ANI61C562:3 131..2799			TBX	AFUc06316				5.9E-41			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26172	ENU09967	ANI61C8133:3..473			TBX	AFUc11118				4.2E-59			
26173	ENU09968	ANI61C578:577..1029			TBX	AFUc01862				3.6E-64			
26174	ENU09969	ANI61C8140:938..64			TBX	"AFUc00985, AFUc03101"				"1.7e-16, 6.6e-43"			
26175	ENU09970	ANI61C7419:511..140			TBX	AFUc15103				2.7E-52			
26176	ENU09971	ANI61C7419:1006..668			TBX	AFUc15103				2.7E-52			
26177	ENU09972	ANI61C8155:2..232			TBX	AFUc15172				2.4E-43			
26178	ENU09973	ANI61C592:459..1			TBX	FGRc12433				5.6E-42			
26179	ENU09974	ANI61C7430:1250..1047			TBX	AFUc05191				3.2E-97			
26180	ENU09975	ANI61C6703:847..1110			TBX	AFUc14632				7.8E-86			
26181	ENU09976	ANI61C6703:2316..1740			TBX	AFUc14632				3.3E-72			
26182	ENU09977	ANI61C6709:4001..4468			TBX	AFUc03350				2.4E-52			
26183	ENU09978	ANI61C6711:2059..1173			TBX	AFUc14433				2.9E-154			
26184	ENU09979	ANI61C6711:2772..2153			TBX	AFUc14433				2.9E-154			
26185	ENU09980	ANI61C6714:6174..6386			TBX	AFUc14412				4.5E-35			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26186	ENU09981	ANI61C6717: 1667..1895			TBX	Y13138				2.8e-34			
26187	ENU09982	ANI61C7455: 2801..2121			TBX	AFUc14993				5.7E-52			
26188	ENU09983	ANI61C6728: 254..499			TBX	AFUc04684				2E-44			
26189	ENU09984	ANI61C7465: 74..283			TBX	AFUc14734				2.8E-136			
26190	ENU09985	ANI61C7485: 3034..3324			TBX	AFUc13156				5.2E-35			
26191	ENU09986	ANI61C7492: 14..599			TBX	AFUc08563				1E-93			
26192	ENU09987	ANI61C6764: 431..997			TBX	AFUc02841				1.4E-59			
26193	ENU09988	ANI61C6772: 1885..1670			TBX	AFUc13631				5E-78			
26194	ENU09989	ANI61C6772: 3366..2850			TBX	AFUc11189				2.3E-31			
26195	ENU09990	ANI61C6777: 1739..2320			TBX	AFUc11182				9.5E-73			
26196	ENU09991	ANI61C6779: 885..415			TBX	AFUc01472				8.6E-45			
26197	ENU09992	ANI61C6785: 400..657			TBX	AFUc18290				1.8E-60			
26198	ENU09993	ANI61S2209: 584..63			TBX	AFUc12936				4.4E-55			
26199	ENU09994	ANI61C3104: 3733..3464			TBX	Y13134				1.1e-95			

[illegible]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26200	ENU09995	ANI61C3122: 355..765			TBX	AFUc15397				3.3E-72			
26201	ENU09996	ANI61C2410: 1111..1348			TBX	AFUc10475				9E-39			
26202	ENU09997	ANI61C2410: 1841..2470			TBX	"AFUc14120, AFUc14120"				"1.3e-116, 1.8e-98"			
26203	ENU09998	ANI61C1121 7:429..1			TBX	CALc01737				5.9E-34			
26204	ENU09999	ANI61C3151: 766..1116			TBX	AFUc12817				1.4E-34			
26205	ENU10000	ANI61C1122 5:2..694			TBX	AFUc11815				3.1E-62			
26206	ENU10001	ANI61C1122 5:879..1377			TBX	"AFUc11815, AFUc11815"				"2.4e-54, 3.1e-62"			
26207	ENU10002	ANI61C1122 9:3671..2959			TBX	AFUc15733				1.7E-120			
26208	ENU10003	ANI61C1700: 23..397			TBX	AFUc13133				3.5E-35			
26209	ENU10004	ANI61C1701: 2076..2837			TBX	AFUc15352				1.3E-62			
26210	ENU10005	ANI61C1705: 3399..3761			TBX	AFUc08134				1.8E-44			
26211	ENU10006	ANI61C2436: 957..1347			TBX	AFUc15614				2.4E-85			
26212	ENU10007	ANI61C1123 4:467..3			TBX	AFUc15455				2.2E-40			
26213	ENU10008	ANI61C1124 0:2..461			TBX	AFUc06703				9.7E-46			

Geneious

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26214	ENU10009	ANI61C3182: 2031..2377			TBX	AFUc04772				7E-47			
26215	ENU10010	ANI61C3185: 508..145			TBX	AFUc13049				1.7E-126			
26216	ENU10011	ANI61C3186: 3106..2741			TBX	AFUc13434				7.6E-45			
26217	ENU10012	ANI61C1730: 3..527			TBX	AFUc10266				6.5E-59			
26218	ENU10013	ANI61C3191: 278..3			TBX	AFUc15545				3.8E-87			
26219	ENU10014	ANI61C2464: 1668..1021			TBX	FGRc11747				1.2E-31			
26220	ENU10015	ANI61C3199: 1..611			TBX	AFUc15519				1.3E-45			
26221	ENU10016	ANI61C1741: 618..33			TBX	AFUc15826				8.6E-41			
26222	ENU10017	ANI61C2473: 1109..42			TBX	"AFUc09645, AFUc09645"				"3.3e-31, 7.9e-54"			
26223	ENU10018	ANI61C1054 1:2933..2106			TBX	"AFUc12046, Y13140"				"6.8e-95, 3.0e-130"			
26224	ENU10019	ANI61C1127 4:1813..796			TBX	"FGRc06649, FGRc11623"				"3.8e-34, 9.9e-11"			
26225	ENU10020	ANI61C1127 9:17..250			TBX	AFUc07741				8.7E-61			
26226	ENU10021	ANI61C2480: 240..440			TBX	AFUc08744				6.3E-48			
26227	ENU10022	ANI61C1759: 1431..460			TBX	"AFUc11420, AFUc18306"				"3.8e-51, 2.0e-21"			

GenBank Submission

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26228	ENU10023	ANI61C1055 3:21..320			TBX	CALc06110				8.7E-101			
26229	ENU10024	ANI61C1055 5:2699..1999			TBX	AFUc05645				8.4E-74			
26230	ENU10025	ANI61C1055 7:467..96			TBX	AFUc13557				6.9E-52			
26231	ENU10026	ANI61C2495: 521..3			TBX	AFUc14306				2.3E-76			
26232	ENU10027	ANI61C600:2 174..1764			TBX	CALc06158				1.5E-72			
26233	ENU10028	ANI61C602:9 74..355			TBX	AFUc13158				1.2E-65			
26234	ENU10029	ANI61C1057 2:57..1135			TBX	"AFUc00606, AFUc06517, FGRc10385"				"1.3e-12, 1.3e-51, 1.0e-33" 2.5E-83			
26235	ENU10030	ANI61C1057 3:1024..1449			TBX	AFUc03864							
26236	ENU10031	ANI61C613:3 ..584			TBX	AFUc14174				1.1E-67			
26237	ENU10032	ANI61C1058 2:545..72			TBX	AFUc14725				2.9E-38			
26238	ENU10033	ANI61C1058 9:7928..8383			TBX	AFUc13200				3.3E-98			
26239	ENU10034	ANI61C1059 2:2426..2656			TBX	AFUc07883				9.4E-32			
26240	ENU10035	ANI61C634:8 86..629			TBX	Y13136				1.0e-18			
26241	ENU10036	ANI61C656:3 4..618			TBX	AFUc07639				1.2E-64			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26242	ENU10037	ANI61C669:3 23..48			TBX	AFUc11626				1.7E-36			
26243	ENU10038	ANI61C8230: 165..455			TBX	FGRcl1456				1.9E-37			
26244	ENU10039	ANI61C7508: 1555..372			TBX	AFUc09787				6.4E-78			
26245	ENU10040	ANI61C671:4 82..808			TBX	AFUc15558				4.8E-61			
26246	ENU10041	ANI61C686:4 695..5262			TBX	AFUc13870				7.5E-43			
26247	ENU10042	ANI61C7523: 1790..2362			TBX	AFUc06950				1.4E-52			
26248	ENU10043	ANI61C7528: 395..3			TBX	AFUc15740				1.2E-39			
26249	ENU10044	ANI61C699:3 53..2			TBX	AFUc09402				3.2E-44			
26250	ENU10045	ANI61C7530: 972..442			TBX	AFUc11771				2.1E-55			
26251	ENU10046	ANI61C7531: 2779..3147			TBX	CALc05550				1.4E-32			
26252	ENU10047	ANI61C7535: 548..1081			TBX	AFUc15071				2.3E-118			
26253	ENU10048	ANI61C7535: 380..3			TBX	AFUc13442				4.5E-43			
26254	ENU10049	ANI61C6808: 2162..2704			TBX	AFUc13976				5.2E-32			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26255	ENU10050	ANI61C6814: 3423..1721			TBX	"AFUc06527, AFUc17241, FGRc09905, FGRc15187"				"1.8e-113, 5.7e-40, 2.6e-74, 3.5e-13"			
26256	ENU10051	ANI61C8273: 1404..1688			TBX	FGRc12425				1.8E-170			
26257	ENU10052	ANI61C8273: 3873..3640			TBX	AFUc11234				7.4E-91			
26258	ENU10053	ANI61C8273: 4919..4605			TBX	AFUc04450				5.2E-32			
26259	ENU10054	ANI61C7546: 569..9			TBX	Y13140				1.5e-69			
26260	ENU10055	ANI61C6819: 360..61			TBX	AFUc14565				1.9E-86			
26261	ENU10056	ANI61C6819: 1172..511			TBX	"AFUc14565, AFUc14565"				"1.9e-86, 5.6e-26"			
26262	ENU10057	ANI61C6823: 475..86			TBX	AFUc08494				3.4E-57			
26263	ENU10058	ANI61C6827: 1241..709			TBX	AFUc15969				9.6E-34			
26264	ENU10059	ANI61C7560: 710..153			TBX	AFUc14056				3.6E-33			
26265	ENU10060	ANI61C8293: 1736..1422			TBX	AFUc11416				4.3E-66			
26266	ENU10061	ANI61C6867: 4199..4710			TBX	AFUc13638				2.6E-33			
26267	ENU10062	ANI61C6875: 487..239			TBX	AFUc15186				2.1E-45			

Contig "0303010001"

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26282	ENU10077	ANI61S1654:1..347			TBX	AFUc10087				5.9E-35			
26283	ENU10078	ANI61C2553:14..374			TBX	AFUc05589				2.6E-44			
26284	ENU10079	ANI61C2553:2527..3117			TBX	AFUc04288				5.7E-58			
26285	ENU10080	ANI61C10624:2670..2122			TBX	AFUc09584				5.6E-35			
26286	ENU10081	ANI61C11357:34..367			TBX	AFUc15619				3.2E-42			
26287	ENU10082	ANI61C1836:516..7			TBX	Z71256				2.7e-20			
26288	ENU10083	ANI61C3299:772..1486			TBX	AFUc15114				9.9E-61			
26289	ENU10084	ANI61C10634:3..416			TBX	FGRc10919				2.1E-33			
26290	ENU10085	ANI61C11363:2..495			TBX	AFUc13573				2.3E-64			
26291	ENU10086	ANI61S1673:438..133			TBX	AFUc01485				2E-37			
26292	ENU10087	ANI61C1840:506..42			TBX	AFUc09670				3.8E-37			
26293	ENU10088	ANI61C10646:757..247			TBX	AFUc10676				1.9E-70			
26294	ENU10089	ANI61C10646:1379..1034			TBX	AFUc10676				1.9E-70			
26295	ENU10090	ANI61C1850:1015..1			TBX	AFUc15969				3.6E-101			

Table 6.3.1

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26296	ENU10091	ANI61C1065 4:5628..6366			TBX	"AFUc15290, FGRc03192"				"1.0e-153, 1.6e-66" 2.1E-47			
26297	ENU10092	ANI61C1138 4:961..456			TBX	AFUc04784							
26298	ENU10093	ANI61C1138 6:949..477			TBX	AFUc07894				1.8E-51			
26299	ENU10094	ANI61C2598: 1649..1030			TBX	AFUc14134				3.8E-61			
26300	ENU10095	ANI61C1139 3:1062..1801			TBX	"AFUc15965, AFUc15965"				"1.4e-160, 4.5e-167" 4.5E-167			
26301	ENU10096	ANI61C1139 3:2717..3327			TBX	AFUc15965							
26302	ENU10097	ANI61C1139 3:3454..4047			TBX	AFUc15965				4.5E-167			
26303	ENU10098	ANI61C1139 8:1407..1883			TBX	AFUc19996				5.4E-33			
26304	ENU10099	ANI61C1066 9:2650..2192			TBX	AFUc15856				2E-118			
26305	ENU10100	ANI61C1871: 642..304			TBX	AFUc01385				3.1E-34			
26306	ENU10101	ANI61C702:9 ..296			TBX	AFUc02664				2.3E-50			
26307	ENU10102	ANI61C1067 0:241..2			TBX	AFUc11950				5.1E-41			
26308	ENU10103	ANI61C9007: 3904..4113			TBX	AFUc13744				2.2E-85			
26309	ENU10104	ANI61C1886: 516..781			TBX	AFUc12305				9.9E-50			

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26310	ENU10105	ANI61C1068 6:674..357			TBX	AFUc16162				1.5E-45			
26311	ENU10106	ANI61C1899: 1..216			TBX	X59720				5.9e-45			
26312	ENU10107	ANI61C722:3 540..3286			TBX	Y13134				2.1e-120			
26313	ENU10108	ANI61C1069 1:232..450			TBX	AFUc01808				1.2E-43			
26314	ENU10109	ANI61C1069 2:1866..2621			TBX	AFUc15403				9.5E-47			
26315	ENU10110	ANI61C9024: 334..2			TBX	AFUc10157				2.4E-73			
26316	ENU10111	ANI61C736:4 ..557			TBX	FGRc08015				4.1E-34			
26317	ENU10112	ANI61C742:9 86..1309			TBX	AFUc04230				2.2E-42			
26318	ENU10113	ANI61C9041: 769..225			TBX	AFUc15972				4.3E-51			
26319	ENU10114	ANI61C8314: 847..1149			TBX	AFUc01794				9.8E-39			
26320	ENU10115	ANI61C754:1 694..2598			TBX	AFUc07695				6E-94			
26321	ENU10116	ANI61C759:9 74..1656			TBX	AFUc15782				1.3E-216			
26322	ENU10117	ANI61C760:8 24..1195			TBX	AFUc15173				7.7E-116			
26323	ENU10118	ANI61C9060: 489..1082			TBX	"AFUc09562, AFUc16430"				"5.1e-41, 1.7e-14"			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26324	ENU10119	ANI61C7602: 2..661			TBX	AFUc08499				2E-43			
26325	ENU10120	ANI61C7611: 266..18			TBX	AFUc01029				1E-34			
26326	ENU10121	ANI61C9078: 1169..627			TBX	"CALc05486, Y13140"				"1.7e-172, 9.9e-187"			
26327	ENU10122	ANI61C9081: 2..544			TBX	AFUc09562				3.3E-71			
26328	ENU10123	ANI61C796:2 000..1580			TBX	Z71256				1.1e-94			
26329	ENU10124	ANI61C797:3 073..3285			TBX	AFUc14002				2E-68			
26330	ENU10125	ANI61C6901: 369..1157			TBX	AFUc11697				1.6E-66			
26331	ENU10126	ANI61C6908: 238..2			TBX	AFUc11236				2E-80			
26332	ENU10127	ANI61C8372: 68..310			TBX	FGRc10332				2.9E-38			
26333	ENU10128	ANI61C6936: 1145..1738			TBX	AFUc00849				5.3E-50			
26334	ENU10129	ANI61C6941: 1300..322			TBX	AFUc13344				4.8E-76			
26335	ENU10130	ANI61C7675: 1507..1737			TBX	AFUc15563				2.7E-84			
26336	ENU10131	ANI61S617:5 00..105			TBX	AFUc05623				7E-47			
26337	ENU10132	ANI61C24:48 2..219			TBX	AFUc10888				2.2E-38			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26338	ENU10133	ANI61C24:39 12..3514			TBX	AFUc03140				3E-62			
26339	ENU10134	ANI61C4002: 2009..1581			TBX	AFUc10817				4.7E-59			
26340	ENU10135	ANI61C6983: 961..1700			TBX	AFUc14695				1E-47			
26341	ENU10136	ANI61C4013: 122..460			TBX	AFUc11715				4.5E-34			
26342	ENU10137	ANI61C6992: 2612..3298			TBX	AFUc10584				8.8E-42			
26343	ENU10138	ANI61C4029: 80..709			TBX	AFUc13720				5.9E-36			
26344	ENU10139	ANI61C4034: 851..537			TBX	FGRc12892				3.8E-40			
26345	ENU10140	ANI61C74:24 01..1973			TBX	FGRc10359				2E-50			
26346	ENU10141	ANI61C80:31 13..3924			TBX	AFUc11668				1.9E-71			
26347	ENU10142	ANI61C82:17 26..1385			TBX	AFUc06769				3.8E-51			
26348	ENU10143	ANI61C4062: 745..1218			TBX	AFUc07689				5.4E-37			
26349	ENU10144	ANI61C95:21 13..1149			TBX	FGRc02814				5.6E-52			
26350	ENU10145	ANI61C96:15 17..1230			TBX	FGRc10078				1.4E-40			
26351	ENU10146	ANI61C1140 1:3..434			TBX	AFUc13163				2.4E-38			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26366	ENU10161	ANI61C1072 5:528..16			TBX	AFUc12822				2.6E-35			
26367	ENU10162	ANI61C2662: 2551..2306			TBX	AFUc13641				5.8E-31			
26368	ENU10163	ANI61C3398: 387..870			TBX	AFUc18684				2E-44			
26369	ENU10164	ANI61C1146 2:3829..4053			TBX	AFUc13016				5.5E-42			
26370	ENU10165	ANI61C2676: 330..5			TBX	AFUc13919				6.5E-148			
26371	ENU10166	ANI61C2679: 1222..893			TBX	AFUc09698				2.1E-47			
26372	ENU10167	ANI61C1954: 679..9			TBX	"FGRc04985, Y13140"				"1.4e-62, 1.4e-35"			
26373	ENU10168	ANI61C2684: 71..694			TBX	AFUc06488				2.4E-82			
26374	ENU10169	ANI61C1075 3:1340..981			TBX	AFUc19770				9.7E-36			
26375	ENU10170	ANI61C1075 3:1723..1472			TBX	"AFUc17439, AFUc17439"				"2.2e-40, 6.0e-31"			
26376	ENU10171	ANI61C1076 2:980..528			TBX	AFUc10345				3.4E-32			
26377	ENU10172	ANI61C805:2 233..2634			TBX	AFUc15684				6.5E-95			
26378	ENU10173	ANI61C1077 1:216..4			TBX	AFUc14697				1.4E-103			
26379	ENU10174	ANI61C1077 6:3838..4329			TBX	AFUc21889				1.2E-40			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26380	ENU10175	ANI61C9104:528..4			TBX	AFUc01187				7.3E-40			
26381	ENU10176	ANI61C810:205..2			TBX	CALc05989				8.6E-33			
26382	ENU10177	ANI61C10784:3472..3786			TBX	AFUc14184				3.6E-62			
26383	ENU10178	ANI61C9110:222..683			TBX	AFUc08719				2E-48			
26384	ENU10179	ANI61C9112:7119..6715			TBX	AFUc12106				4.2E-73			
26385	ENU10180	ANI61C1990:33..308			TBX	AFUc15553				7.5E-55			
26386	ENU10181	ANI61C8403:475..2			TBX	AFUc13583				1.4E-64			
26387	ENU10182	ANI61C9135:1669..1460			TBX	CALc05289				7.1E-84			
26388	ENU10183	ANI61C843:2539..2069			TBX	AFUc10565				1.5E-63			
26389	ENU10184	ANI61C847:482..111			TBX	AFUc00801				3.7E-51			
26390	ENU10185	ANI61C9142:131..346			TBX	AFUc01270				3.1E-55			
26391	ENU10186	ANI61C854:619..1			TBX	AFUc15449				1.5E-50			
26392	ENU10187	ANI61C8426:389..1			TBX	AFUc13368				1.2E-34			
26393	ENU10188	ANI61C861:3..675			TBX	"AFUc16323, Y13140"				"1.4e-27, 2.5e-41"			

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26394	ENU10189	ANI61C9162:1393..776			TBX	AFUc14973				4.9E-32			
26395	ENU10190	ANI61C7710:775..35			TBX	AFUc12089				2.3E-64			
26396	ENU10191	ANI61C7715:3917..4234			TBX	FGRc09602				3.3E-33			
26397	ENU10192	ANI61C7717:6428..6108			TBX	FGRc18440				7.3E-33			
26398	ENU10193	ANI61C880:1600..692			TBX	AFUc05401				7E-61			
26399	ENU10194	ANI61C8450:2030..1656			TBX	AFUc14668				1.6E-40			
26400	ENU10195	ANI61C9184:31..390			TBX	AFUc08030				4.1E-49			
26401	ENU10196	ANI61C7728:1528..953			TBX	AFUc14112				1.2E-37			
26402	ENU10197	ANI61C8457:6314..5572			TBX	"AFUc09443, AFUc09443, FGRc19689, U00093"				"2.2e-54, 7.4e-41, 2.3e-26, 1.7e-34"			
26403	ENU10198	ANI61C8459:2032..1801			TBX	AFUc15223				2.5E-129			
26404	ENU10199	ANI61C8459:9064..8759			TBX	AFUc10030				3E-104			
26405	ENU10200	ANI61C893:2401..2670			TBX	AFUc14162				1.1E-84			
26406	ENU10201	ANI61C7735:754..1065			TBX	AFUc12028				5.3E-40			
26407	ENU10202	ANI61C8480:888..511			TBX	AFUc15553				3.6E-35			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26408	ENU10203	ANI61C8486:3..308			TBX	CALc04830				5.4E-77			
26409	ENU10204	ANI61C8494:3477..2449			TBX	AFUc14523				5E-90			
26410	ENU10205	ANI61C7767:1652..2095			TBX	AFUc05805				6.9E-138			
26411	ENU10206	ANI61C7776:1643..1987			TBX	AFUc10213				1.6E-33			
26412	ENU10207	ANI61S710:8..441			TBX	AFUc01898				7.8E-46			
26413	ENU10208	ANI61S34:6..293			TBX	AFUc09951				4.4E-40			
26414	ENU10209	ANI61S42:409..23			TBX	FGRc11175				1.1E-40			
26415	ENU10210	ANI61C4105:15..279			TBX	AFUc15131				2.2E-72			
26416	ENU10211	ANI61C4108:432..3			TBX	AFUc15554				3E-38			
26417	ENU10212	ANI61C3402:1678..1353			TBX	AFUc08075				2.3E-66			
26418	ENU10213	ANI61C4132:581..807			TBX	U00094				"9,4e-22"			
26419	ENU10214	ANI61C4132:1138..1458			TBX	AFUc01742				1.1E-35			
26420	ENU10215	ANI61C4132:3240..3479			TBX	FGRc07284				1.6E-95			
26421	ENU10216	ANI61C3412:711..1163			TBX	AFUc12614				9.6E-40			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26422	ENU10217	ANI61C4144: 154..513			TBX	AFUc18185				3E-49			
26423	ENU10218	ANI61C4146: 206..6			TBX	AFUc11980				2.7E-48			
26424	ENU10219	ANI61C3427: 2300..2070			TBX	AFUc11170				1.1E-32			
26425	ENU10220	ANI61C4157: 3987..3415			TBX	"AFUc22639, Y13135"				"1.5e-13, 3.2e-25"			
26426	ENU10221	ANI61C4160: 27..296			TBX	AFUc20192				5.3E-35			
26427	ENU10222	ANI61C3443: 512..24			TBX	AFUc17062				4.4E-47			
26428	ENU10223	ANI61C4182: 2842..3151			TBX	Y13136				2.5e-18			
26429	ENU10224	ANI61C4192: 4052..3765			TBX	AFUc14724				3.7E-90			
26430	ENU10225	ANI61C4194: 2150..2505			TBX	AFUc11112				1E-37			
26431	ENU10226	ANI61C4195: 809..1015			TBX	AFUc11252				5.6E-91			
26432	ENU10227	ANI61C4199: 794..1340			TBX	"AFUc01489, AFUc19265"				"9.5e-48, 7.7e-08"			
26433	ENU10228	ANI61C3474: 853..3			TBX	AFUc06878				3.1E-82			
26434	ENU10229	ANI61S2581: 2..439			TBX	"AFUc18278, CALc04638"				"1.3e-25, 1.3e-31"			
26435	ENU10230	ANI61C3481: 424..5			TBX	AFUc10462				1.5E-38			

Sequence description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26436	ENU10231	ANI61S1867:101..544			TBX	AFUc14374				1.7E-68			
26437	ENU10232	ANI61C2763:8..802			TBX	AFUc13692				5.8E-77			
26438	ENU10233	ANI61C2774:525..4			TBX	AFUc14947				1.7E-54			
26439	ENU10234	ANI61C10849:3248..3499			TBX	AFUc10042				4.5E-54			
26440	ENU10235	ANI61C10855:2191..2922			TBX	"AFUc08795, AFUc08853"				"6.4e-78, 1.6e-38"			
26441	ENU10236	ANI61C2798:939..448			TBX	AFUc04411				7.2E-31			
26442	ENU10237	ANI61C900:494..760			TBX	Z71256				9.0e-47			
26443	ENU10238	ANI61C904:1533..1126			TBX	CALc05922				2.2E-46			
26444	ENU10239	ANI61C9202:2010..1717			TBX	FGRc11250				2.3E-79			
26445	ENU10240	ANI61C10888:1767..1118			TBX	AFUc15937				5.5E-34			
26446	ENU10241	ANI61C9214:363..4			TBX	AFUc14249				2.9E-66			
26447	ENU10242	ANI61C9214:2824..2441			TBX	AFUc05949				1.8E-56			
26448	ENU10243	ANI61C10890:82..1020			TBX	"AFUc15972, AFUc15972"				"3.1e-67, 9.1e-74"			
26449	ENU10244	ANI61C10894:3385..2755			TBX	FGRc10423				9.6E-38			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26450	ENU10245	ANI61C9221:1982..2254			TBX	AFUc14012				2.7E-72			
26451	ENU10246	ANI61C936:1465..1980			TBX	AFUc15330				2.4E-132			
26452	ENU10247	ANI61C8502:769..171			TBX	"AFUc03429, AFUc18078"				"2.2e-09, 9.7e-43"			
26453	ENU10248	ANI61C945:2606..1959			TBX	AFUc13932				8.5E-51			
26454	ENU10249	ANI61C945:2854..2606			TBX	AFUc13932				8.5E-51			
26455	ENU10250	ANI61C8510:2200..1793			TBX	AFUc14805				2.3E-52			
26456	ENU10251	ANI61C8529:1547..2065			TBX	FGRc02575				1.3E-33			
26457	ENU10252	ANI61C8537:1088..33			TBX	FGRc10154				5.6E-44			
26458	ENU10253	ANI61C9268:4569..4189			TBX	AFUc20576				3.3E-49			
26459	ENU10254	ANI61C9269:1741..2743			TBX	"AFUc14083, AFUc15534"				"1.9e-19, 5.3e-32"			
26460	ENU10255	ANI61C7811:352..8			TBX	AFUc13321				1.9E-33			
26461	ENU10256	ANI61C9273:2..301			TBX	AFUc05348				2.6E-34			
26462	ENU10257	ANI61C9274:1360..1106			TBX	AFUc10007				9.1E-49			
26463	ENU10258	ANI61C989:1027..1779			TBX	AFUc15375				1.7E-71			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr	% cvrg	Description
26492	ENU10287	ANI61C4270: 4242..4855			TBX	AFUc02593				2.2E-34				
26493	ENU10288	ANI61C3544: 3554..3094			TBX	AFUc12369				1.4E-40				
26494	ENU10289	ANI61C2817: 373..15			TBX	AFUc15017				1.3E-45				
26495	ENU10290	ANI61C3548: 1461..1129			TBX	FGRc26479				2.3E-41				
26496	ENU10291	ANI61S1939: 606..169			TBX	AFUc13323				3.7E-38				
26497	ENU10292	ANI61C3566: 4239..4448			TBX	Y13136				1.4e-52				
26498	ENU10293	ANI61C1090 0:536..907			TBX	FGRc11747				9.5E-32				
26499	ENU10294	ANI61C3588: 2278..2856			TBX	AFUc13885				2.5E-56				
26500	ENU10295	ANI61C3592: 358..8			TBX	AFUc09097				5.2E-32				
26501	ENU10296	ANI61C1093 2:1213..582			TBX	AFUc15923				1.3E-49				
26502	ENU10297	ANI61C1093 6:2207..1787			TBX	AFUc05492				5.8E-53				
26503	ENU10298	ANI61C1093 7:782..1237			TBX	AFUc14290				2.1E-41				
26504	ENU10299	ANI61C1094 3:423..671			TBX	AFUc17390				6.5E-42				
26505	ENU10300	ANI61C2880: 800..504			TBX	AFUc16447				1.2E-32				

Accession numbers

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
26506	ENU10301	ANI61C2882: 808..1305			TBX	AFUc13856				2.1E-47			
26507	ENU10302	ANI61C2885: 481..783			TBX	AFUc14906				7.3E-35			
26508	ENU10303	ANI61C1096 3:4720..4947			TBX	AFUc01385				2.5E-37			
26509	ENU10304	ANI61C1097 4:6..680			TBX	AFUc09332				2E-40			
26510	ENU10305	ANI61C1097 8:377..102			TBX	AFUc10468				8E-37			
26511	ENU10306	ANI61C9300: 2401..1704			TBX	"AFUc05781, AFUc12769"				"2.7e-47, 2.6e-47"			
26512	ENU10307	ANI61C1098 7:2320..2655			TBX	AFUc21995				2.4E-46			
26513	ENU10308	ANI61C1098 9:469..18			TBX	AFUc12150				4.4E-39			
26514	ENU10309	ANI61C9310: 741..25			TBX	AFUc15016				4E-81			
26515	ENU10310	ANI61C9318: 4838..4473			TBX	AFUc07003				7.7E-89			
26516	ENU10311	ANI61C9326: 1564..1956			TBX	AFUc15104				4.7E-65			
26517	ENU10312	ANI61C8605: 1497..625			TBX	AFUc06416				5.3E-44			
26518	ENU10313	ANI61C8608: 3240..2755			TBX	AFUc04235				4.7E-50			
26519	ENU10314	ANI61C8608: 4091..3681			TBX	AFUc01064				3.8E-53			

Gene Organization

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26520	ENU10315	ANI61C8615: 3641..3897			TBX	AFUc15221				3.5E-54			
26521	ENU10316	ANI61C9345: 302..3			TBX	AFUc15332				3E-33			
26522	ENU10317	ANI61C8618: 2899..2618			TBX	AFUc15281				1.8E-47			
26523	ENU10318	ANI61C8618: 3589..3119			TBX	AFUc03740				8.5E-36			
26524	ENU10319	ANI61C9355: 543..7			TBX	AFUc15687				9.2E-108			
26525	ENU10320	ANI61C9362: 1959..1529			TBX	AFUc21030				1.2E-35			
26526	ENU10321	ANI61C9363: 1339..866			TBX	AFUc20167				2.7E-42			
26527	ENU10322	ANI61C8635: 1402..1717			TBX	AFUc15942				3.1E-34			
26528	ENU10323	ANI61C9369: 2437..1592			TBX	"AFUc01185, FGRC20865"				"6.1e-20, 2.0e-37"			
26529	ENU10324	ANI61C9377: 955..1296			TBX	AFUc08600				4.6E-38			
26530	ENU10325	ANI61C8649: 3568..3825			TBX	"AFUc09782, FGRC24890"				"2.0e-21, 1.9e-43"			
26531	ENU10326	ANI61C8653: 2070..2574			TBX	AFUc04641				8.6E-43			
26532	ENU10327	ANI61C8656: 2089..2426			TBX	T18724				1.7e-22			
26533	ENU10328	ANI61C9386: 650..2094			TBX	AFUc13410				8.1E-94			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr	% cvrg	Description
26534	ENU10329	ANI61C8659: 566..294			TBX	AFUc10787				2.7E-74				
26535	ENU10330	ANI61C7939: 1440..1162			TBX	AFUc11560				5.5E-57				
26536	ENU10331	ANI61C8669: 4081..4653			TBX	AFUc05795				9E-47				
26537	ENU10332	ANI61C8672: 12..1160			TBX	AFUc13321				2.5E-89				
26538	ENU10333	ANI61C8685: 144..353			TBX	AFUc13122				2.1E-67				
26539	ENU10334	ANI61C7963: 2540..3006			TBX	AFUc09860				1.6E-37				
26540	ENU10335	ANI61C7988: 556..248			TBX	AFUc03753				7.1E-40				
26541	ENU10336	ANI61C7994: 2406..3131			TBX	AFUc02330				3.1E-48				
26542	ENU10337	ANI61C5025: 1520..773			TBX	AFUc08324				5.2E-49				
26543	ENU10338	ANI61C4311: 338..670			TBX	AFUc03634				4.4E-34				
26544	ENU10339	ANI61C5041: 132..716			TBX	AFUc05209				5.7E-57				
26545	ENU10340	ANI61C4315: 2667..2467			TBX	AFUc14948				4.4E-68				
26546	ENU10341	ANI61C5049: 1100..303			TBX	AFUc02784				4.9E-52				
26547	ENU10342	ANI61C5053: 7..360			TBX	AFUc12855				1.4E-81				

Genes with

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26562	ENU10357	ANI61C3672: 455..679			TBX	AFUc15435				6.4E-78			
26563	ENU10358	ANI61C2949: 167..850			TBX	AFUc07056				1.8E-49			
26564	ENU10359	ANI61S2794: 559..104			TBX	AFUc10264				8.5E-70			
26565	ENU10360	ANI61C2968: 1521..2163			TBX	AFUc05625				1E-67			
26566	ENU10361	ANI61C2976: 1861..2472			TBX	AFUc13072				1.6E-80			
26567	ENU10362	ANI61C2982: 515..10			TBX	AFUc08724				5.7E-34			
26568	ENU10363	ANI61C9433: 998..517			TBX	AFUc03107				2.7E-42			
26569	ENU10364	ANI61C9435: 444..31			TBX	AFUc08363				3.8E-34			
26570	ENU10365	ANI61C9442: 3306..2878			TBX	AFUc14805				2E-54			
26571	ENU10366	ANI61C8715: 442..867			TBX	AFUc05950				5.3E-55			
26572	ENU10367	ANI61C8716: 1384..1013			TBX	AFUc14901				3.1E-33			
26573	ENU10368	ANI61C9454: 2260..1922			TBX	AFUc15792				5.4E-55			
26574	ENU10369	ANI61C8731: 1663..2388			TBX	AFUc06663				3.6E-38			
26575	ENU10370	ANI61C8733: 1307..567			TBX	AFUc14363				2E-135			

Table 1: Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Prob	% id	cvg	Description
26590	ENU10385	ANI61C5150: 717..1240			TBX	"AFUc01789, AFUc17092"			"5.8e-31, 7.6e-11"			
26591	ENU10386	ANI61C4423: 1282..1818			TBX	AFUc14561			7.7E-32			
26592	ENU10387	ANI61C5159: 698..164			TBX	AFUc08493			9.8E-49			
26593	ENU10388	ANI61C3704: 361..854			TBX	AFUc07782			5.3E-83			
26594	ENU10389	ANI61C4437: 1727..2095			TBX	AFUc10065			7.2E-31			
26595	ENU10390	ANI61C5173: 1175..777			TBX	AFUc15520			3E-125			
26596	ENU10391	ANI61C3725: 729..1112			TBX	AFUc01619			1.6E-47			
26597	ENU10392	ANI61C3734: 34..558			TBX	AFUc16279			7.1E-47			
26598	ENU10393	ANI61C3735: 2099..3050			TBX	AFUc12357			7.2E-77			
26599	ENU10394	ANI61C4464: 433..2			TBX	AFUc07536			1.6E-37			
26600	ENU10395	ANI61C3736: 3424..3224			TBX	AFUc06687			8.9E-35			
26601	ENU10396	ANI61C3737: 281..3			TBX	AFUc09976			1.8E-68			
26602	ENU10397	ANI61C3743: 627..92			TBX	AFUc16169			3.2E-41			
26603	ENU10398	ANI61C3747: 860..1082			TBX	AFUc14515			1.4E-45			

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26618	ENU10413	ANI61C9577: 5153..5725			TBX	AFUc20879				2.9E-58			
26619	ENU10414	ANI61C9579: 2165..1657			TBX	"AFUc13295, FGRc06579"				"5.7e-31, 1.5e-12"			
26620	ENU10415	ANI61C9585: 845..213			TBX	AFUc11738				6.2E-96			
26621	ENU10416	ANI61C8873: 1147..668			TBX	AFUc04140				1.4E-46			
26622	ENU10417	ANI61C8876: 126..374			TBX	Y13135				1.9e-146			
26623	ENU10418	ANI61C8878: 4257..3709			TBX	AFUc15197				1.1E-100			
26624	ENU10419	ANI61C5200: 1392..2379			TBX	"CALc06185, CALc06185"				"4.1e-37, 5.6e-13"			
26625	ENU10420	ANI61C5207: 48..260			TBX	AFUc15608				1.5E-46			
26626	ENU10421	ANI61C5211: 2..232			TBX	AFUc09688				2.8E-32			
26627	ENU10422	ANI61C5228: 44..370			TBX	AFUc14750				1.2E-90			
26628	ENU10423	ANI61C5238: 983..675			TBX	AFUc13449				1.1E-42			
26629	ENU10424	ANI61C5238: 1776..1549			TBX	AFUc13449				1.1E-42			
26630	ENU10425	ANI61C5240: 938..63			TBX	AFUc14032				1E-65			
26631	ENU10426	ANI61C4514: 588..343			TBX	AFUc08117				2.6E-31			

Gene "GSH1000"

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26632	ENU10427	ANI61C5247: 4969..5199			TBX	AFUc13730				1E-97			
26633	ENU10428	ANI61C5248: 347..78			TBX	AFUc14275				2.2E-43			
26634	ENU10429	ANI61C5250: 1..324			TBX	AFUc07874				7.2E-35			
26635	ENU10430	ANI61C4526: 813..1025			TBX	AFUc15744				6.4E-115			
26636	ENU10431	ANI61C4534: 428..664			TBX	AFUc02260				2E-47			
26637	ENU10432	ANI61C4534: 935..1201			TBX	AFUc02260				2E-47			
26638	ENU10433	ANI61C3809: 6632..7087			TBX	AFUc16219				2.6E-60			
26639	ENU10434	ANI61C3822: 2..610			TBX	AFUc11403				4.2E-59			
26640	ENU10435	ANI61C4556: 2..343			TBX	AFUc08005				7.6E-41			
26641	ENU10436	ANI61C3830: 3..292			TBX	FGRc22883				8.1E-33			
26642	ENU10437	ANI61C5291: 887..1411			TBX	AFUc02421				6.6E-51			
26643	ENU10438	ANI61C4576: 332..673			TBX	AFUc14692				3.7E-38			
26644	ENU10439	ANI61C4579: 776..66			TBX	AFUc08897				3.3E-63			
26645	ENU10440	ANI61C4581: 167..460			TBX	AFUc10845				8.7E-34			

66660 = 66660

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
26646	ENU10441	ANI61C4587: 401..2			TBX	FGRc06237				2.7E-37			
26647	ENU10442	ANI61C3885: 720..1126			TBX	"AFUc05920, AFUc05920"				"1.6e-31, 7.0e-60"			
26648	ENU10443	ANI61C3890: 1104..649			TBX	AFUc09816				4.1E-48			
26649	ENU10444	ANI61C9618: 2..465			TBX	AFUc03874				7.4E-63			
26650	ENU10445	ANI61C9634: 5066..4527			TBX	AFUc02404				4.9E-39			
26651	ENU10446	ANI61C9636: 4726..4224			TBX	"FGRc17533, Y13140"				"4.0e-28, 2.3e-26"			
26652	ENU10447	ANI61C9637: 1073..178			TBX	FGRc10589				4.6E-75			
26653	ENU10448	ANI61C8908: 2362..2835			TBX	AFUc15919				3E-49			
26654	ENU10449	ANI61C8910: 391..2			TBX	AFUc04556				3.7E-43			
26655	ENU10450	ANI61C8913: 3476..3057			TBX	AFUc03973				1.5E-35			
26656	ENU10451	ANI61C9642: 1286..852			TBX	FGRc10508				2.7E-48			
26657	ENU10452	ANI61C8921: 2219..2962			TBX	AFUc13687				2.4E-34			
26658	ENU10453	ANI61C8921: 5235..4886			TBX	AFUc08999				3.6E-32			
26659	ENU10454	ANI61C9656: 2345..2824			TBX	AFUc12498				6.1E-46			

66666" description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26660	ENU10455	ANI61C8932: 646..5			TBX	FGRc06110				9.2E-38			
26661	ENU10456	ANI61C9663: 4438..3729			TBX	AFUc11984				1.2E-63			
26662	ENU10457	ANI61C8941: 837..1202			TBX	AFUc07937				1.5E-56			
26663	ENU10458	ANI61C9673: 3351..2389			TBX	"FGRc06761, FGRc13645"				"4.5e-12, 1.3e-33"			
26664	ENU10459	ANI61C9683: 1130..903			TBX	AFUc14283				1.4E-60			
26665	ENU10460	ANI61C8956: 3704..3153			TBX	AFUc04448				6.7E-60			
26666	ENU10461	ANI61C8958: 282..31			TBX	AFUc03959				2.9E-47			
26667	ENU10462	ANI61C8958: 512..282			TBX	AFUc03959				2.9E-47			
26668	ENU10463	ANI61C8962: 3300..3755			TBX	FGRc11722				2.7E-50			
26669	ENU10464	ANI61C8966: 3485..4861			TBX	AFUc12092				1.2E-83			
26670	ENU10465	ANI61C9697: 3970..3734			TBX	FGRc02733				1.1E-33			
26671	ENU10466	ANI61C9698: 1565..1311			TBX	AFUc09469				6.9E-86			
26672	ENU10467	ANI61C8971: 25..270			TBX	AFUc19130				1.8E-35			
26673	ENU10468	ANI61C8975: 606..31			TBX	AFUc10229				5.8E-58			

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26688	ENU10483	ANI61C5339:1771..1418			TBX	AFUc18220				1.3E-41			
26689	ENU10484	ANI61C5346:1293..1616			TBX	AFUc11752				5.5E-32			
26690	ENU10485	ANI61C3905:1127..333			TBX	AFUc02952				2.5E-70			
26691	ENU10486	ANI61C3905:1507..1292			TBX	AFUc13396				3.6E-53			
26692	ENU10487	ANI61C6092:510..307			TBX	AFUc15283				8.6E-35			
26693	ENU10488	ANI61C3908:1013..1393			TBX	AFUc09536				6.1E-57			
26694	ENU10489	ANI61C3916:1331..1672			TBX	AFUc14010				1.5E-102			
26695	ENU10490	ANI61C3922:3..212			TBX	AFUc15201				3.9E-38			
26696	ENU10491	ANI61S3768:482..240			TBX	AFUc08524				9.3E-35			
26697	ENU10492	ANI61C4662:613..335			TBX	AFUc13777				2.1E-40			
26698	ENU10493	ANI61C4670:745..53			TBX	AFUc12006				1.8E-56			
26699	ENU10494	ANI61C3958:1367..1068			TBX	U00093				4.9e-16			
26700	ENU10495	ANI61C3964:5879..6301			TBX	AFUc17957				8.5E-32			
26701	ENU10496	ANI61C3979:1132..3123			TBX	AFUc15917				3.1E-152			

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26702	ENU10497	ANI61C1002: 2691..3661			TBX	AFUc11715				9E-91			
26703	ENU10498	ANI61C1002: 2096..1689			TBX	AFUc03394				3.1E-34			
26704	ENU10499	ANI61C3982: 934..1254			TBX	AFUc15781				9.6E-174			
26705	ENU10500	ANI61C1030: 2411..3198			TBX	AFUc10447				2.7E-51			
26706	ENU10501	ANI61C9702: 4068..4367			TBX	"AFUc10199, AFUc10199"				"1.4e-80, 6.8e-74"			
26707	ENU10502	ANI61C1072: 754..13			TBX	AFUc15759				4.6E-43			
26708	ENU10503	ANI61C9726: 653..1			TBX	CALc05491				6.1E-33			
26709	ENU10504	ANI61C9729: 2216..1656			TBX	AFUc14102				5.2E-39			
26710	ENU10505	ANI61C9737: 343..26			TBX	AFUc14470				6.8E-75			
26711	ENU10506	ANI61C9737: 1274..918			TBX	AFUc14470				6.8E-75			
26712	ENU10507	ANI61C9768: 1271..2131			TBX	U00094				3.0e-246			
26713	ENU10508	ANI61C9771: 4119..4642			TBX	AFUc07319				3.7E-53			
26714	ENU10509	ANI61C9776: 5848..5597			TBX	AFUc10732				1.6E-49			
26715	ENU10510	ANI61C9779: 777..364			TBX	Y13137				5.8e-80			

[illegible]

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26730	ENU10525	ANI61C4714:1635..1198			TBX	AFUc11891				3.4E-32			
26731	ENU10526	ANI61C4721:76..363			TBX	AFUc07768				1.4E-58			
26732	ENU10527	ANI61C6180:963..1289			TBX	AFUc18477				7.1E-38			
26733	ENU10528	ANI61C4733:77..687			TBX	AFUc13638				1E-38			
26734	ENU10529	ANI61C5462:921..253			TBX	AFUc14210				6.7E-68			
26735	ENU10530	ANI61C5471:621..1014			TBX	AFUc14562				3.3E-44			
26736	ENU10531	ANI61C4749:1693..1490			TBX	AFUc15821				1.7E-128			
26737	ENU10532	ANI61S4583:51..377			TBX	AFUc15972				1.6E-33			
26738	ENU10533	ANI61C4764:494..195			TBX	AFUc11693				1.4E-103			
26739	ENU10534	ANI61C4784:1322..855			TBX	AFUc00822				1.2E-52			
26740	ENU10535	ANI61C4790:720..457			TBX	AFUc00901				5.3E-36			
26741	ENU10536	ANI61C4796:1558..2298			TBX	AFUc15050				3E-86			
26742	ENU10537	ANI61C1104:1273..611			TBX	CALc06186				8E-40			
26743	ENU10538	ANI61C1112:2794..1976			TBX	AFUc11351				5.1E-46			

blast2seq - description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26744	ENU10539	ANI61C1120:12513..12740			TBX	CALc03518				2.3E-56			
26745	ENU10540	ANI61C1120:1790..1437			TBX	AFUc15689				1.1E-41			
26746	ENU10541	ANI61C1127:2014..1043			TBX	AFUc11947				1E-105			
26747	ENU10542	ANI61C1135:1766..2113			TBX	AFUc15916				3.1E-98			
26748	ENU10543	ANI61C1137:10..315			TBX	AFUc15972				1.2E-120			
26749	ENU10544	ANI61C1137:430..1264			TBX	AFUc15972				1.2E-120			
26750	ENU10545	ANI61C1138:193..701			TBX	AFUc15803				6.3E-91			
26751	ENU10546	ANI61C1138:1603..1989			TBX	AFUc15803				6.3E-91			
26752	ENU10547	ANI61C1139:5367..5110			TBX	CALc06190				8.4E-44			
26753	ENU10548	ANI61C1141:2040..2351			TBX	AFUc22467				1.9E-71			
26754	ENU10549	ANI61C9807:2386..2132			TBX	AFUc13156				3.2E-40			
26755	ENU10550	ANI61C1183:3285..3707			TBX	AFUc16697				9.8E-57			
26756	ENU10551	ANI61C1188:2..371			TBX	AFUc15915				8.4E-80			
26757	ENU10552	ANI61C1188:4690..4926			TBX	AFUc15848				2.9E-120			

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26758	ENU10553	ANI61C1188: 7009..7704			TBX	AFUc13465				2.6E-50			
26759	ENU10554	ANI61C9827: 4904..4662			TBX	AFUc01941				4.4E-33			
26760	ENU10555	ANI61C1190: 1669..1460			TBX	AFUc19119				3.3E-46			
26761	ENU10556	ANI61C9876: 4899..5639			TBX	AFUc01111				4.6E-51			
26762	ENU10557	ANI61C9878: 1670..1978			TBX	FGRc13922				3.2E-51			
26763	ENU10558	ANI61C9880: 4442..4932			TBX	AFUc19094				8.2E-36			
26764	ENU10559	ANI61C9880: 5038..5410			TBX	AFUc10800				2.7E-74			
26765	ENU10560	ANI61C9880: 1147..719			TBX	AFUc20412				4.8E-39			
26766	ENU10561	ANI61C9882: 5925..6479			TBX	AFUc10536				1.3E-48			
26767	ENU10562	ANI61C9883: 1765..2013			TBX	AFUc03896				9.4E-34			
26768	ENU10563	ANI61C6208: 4005..4583			TBX	AFUc02427				6.4E-42			
26769	ENU10564	ANI61C6220: 228..691			TBX	AFUc13617				7.9E-152			
26770	ENU10565	ANI61S4601: 369..16			TBX	AFUc17622				9.7E-46			
26771	ENU10566	ANI61C5501: 1905..2144			TBX	CALc02466				3.2E-69			

Gene "CsaH1000"

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26786	ENU10581	ANI61C6299: 603..1086			TBX	AFUc13847				2.2E-59			
26787	ENU10582	ANI61S3944: 5..361			TBX	AFUc14576				2.3E-41			
26788	ENU10583	ANI61C4841: 161..523			TBX	AFUc11703				7.1E-59			
26789	ENU10584	ANI61C4844: 1224..514			TBX	AFUc14922				1.1E-58			
26790	ENU10585	ANI61C5574: 4287..4858			TBX	AFUc12427				3.3E-48			
26791	ENU10586	ANI61C4851: 1359..1936			TBX	AFUc15187				6.8E-127			
26792	ENU10587	ANI61C4852: 465..217			TBX	AFUc11440				2.2E-64			
26793	ENU10588	ANI61C4858: 4225..3968			TBX	AFUc18745				6.1E-58			
26794	ENU10589	ANI61C1213: 666..2015			TBX	"AFUc00755, AFUc11547, AFUc21642"				"7.2e-48, 3.7e-60, 5.5e-50"			
26795	ENU10590	ANI61C1002 1:2042..2257			TBX	Y13137				1.7e-114			
26796	ENU10591	ANI61C1002 1:2807..3483			TBX	Y13137				1.7e-114			
26797	ENU10592	ANI61C1002 1:5043..5705			TBX	Y13137				1.7e-114			
26798	ENU10593	ANI61C1233: 104..469			TBX	AFUc15972				3E-223			
26799	ENU10594	ANI61C1233: 593..2227			TBX	"AFUc15972, AFUc15972"				"2.5e- 220, 3.0e- 223"			

Geneious

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26800	ENU10595	ANI61C1233:2461..2855			TBX	AFUc15972				3E-223			
26801	ENU10596	ANI61C10045:1756..2355			TBX	U00093				6.3e-36			
26802	ENU10597	ANI61C10048:4266..3979			TBX	AFUc15560				2.1E-113			
26803	ENU10598	ANI61C1252:1331..926			TBX	T18651				3.1e-27			
26804	ENU10599	ANI61C1252:4561..3724			TBX	"AFUc02348, AFUc12920, AFUc15910"				"2.2e-36, 9.1e-44, 4.0e-38"			
26805	ENU10600	ANI50C1_1680:2447..609	2	1	GSP								
			5	6									
			-	8									
			4	7									
			6	-									
				1									
				7									
				0									
				4									
26806	ENU10601	ANI61C9631:1107..3725	2	1	GSP								
			5	6									
			-	0									
			4	0									
			3	-									
				1									
				6									
				2									
				0									

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
26810	ENU10605	ANI61C7328: 5293..6820	2	1	GSP								
			5	4									
			-	2									
			5	9									
			0	-									
				1									
26811	ENU10606	ANI61C1031 8:4988..5776		4	GSP								
				5									
26812	ENU10607	ANI61C6288: 9175..4851	2	7	GSP								
			7	5									
			-	2									
			5	-									
			0	7									
				7									
26812	ENU10607	ANI61C6288: 9175..4851		9	GSP								
			2	2									
			5	2									
			-	7									
			5	8									
			0	-									
26812	ENU10607	ANI61C6288: 9175..4851		2	GSP								
				3									
				0									
				7									

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26813	ENU10608	ANI61C1025: 943..2449	2	1	GSP								
			5	4									
			-	1									
			4	5									
			4	-									
			1	1									
			4	4									
26814	ENU10609	ANI50C8686 _1:101..1327	2	1	GSP								
			5	1									
			-	9									
			4	1									
			6	-									
			1	1									
			2	2									
26815	ENU10610	ANI61C8855: 1121..3430	0	0	GSP								
			9	9									
			2	1									
			5	9									
			-	6									
			4	8									
			7	-									
			1	1									
			9	9									
			9	5									

Genomic Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26816	ENU10611	ANI61C4238:1653..2569			GSP								
26817	ENU10612	ANI61C9758:5232..2829			GSP								
26818	ENU10613	ANI61C9777:4913..3682			GSP								

Genomic Coordinates

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
26819	ENU10614	ANT61C9272:2805..4329			GSP								
26820	ENU10615	ANT61C11205:3505..5508			GSP								
26821	ENU10616	ANT61C11368:3956..3354			GSP								
26822	ENU10617	ANT61C3922:221..1201			GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26823	ENU10618	ANT61C4244:1752..25			GSP								
26824	ENU10619	ANT61C9662:1762..3272			GSP								
26825	ENU10620	ANT61C1189:733..2186			GSP								

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
26826	ENU10621	ANI61C852:1 055..1534			GSP								
26827	ENU10622	ANI61C1018 8:2524..1832			GSP								
26828	ENU10623	ANI61C1106 4:4467..5468			GSP								
26829	ENU10624	ANI61C1037 9:2558..3166			GSP								

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26830	ENU10625	ANI61C8159:1418..708			GSP								
26831	ENU10626	ANI61C4204:4458..1758			GSP								
26832	ENU10627	ANI61C9269:447..1520			GSP								

Contig coverage

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
---------	--------	---------------	--------------	--------------	-----------------	--------------	---------	-----------	-------------	------------	------	--------	-------------

26833	ENU10628	ANI61C1174: 4..927											
-------	----------	-----------------------	--	--	--	--	--	--	--	--	--	--	--

GSP

26834	ENU10629	ANI61C1099 8:6512..4967											
-------	----------	----------------------------	--	--	--	--	--	--	--	--	--	--	--

GSP

Gene Annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26836	ENU10631	ANI61C1023 6:138..1026			GSP								
26837	ENU10632	ANI61C9178: 4154..3195			GSP								
26838	ENU10633	ANI61C8787: 2798..117			GSP								
26839	ENU10634	ANI61C1052 2:9..1581			GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26840	ENU10635	ANI61C391:1 157..2307			GSP								
26841	ENU10636	ANI61C8594: 354..1610			GSP								
26842	ENU10637	ANI61C5881: 796..2073			GSP								

Genomic Data

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26843	ENU10638	ANI61C1067 6:1673..506			GSP								
26844	ENU10639	ANI61C1026 6:639..1493			GSP								
26845	ENU10640	ANI61C9273: 2356..3502			GSP								
26846	ENU10641	ANI61C9135: 1310..282			GSP								

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrq	Description
26847	ENU10642	ANI61C4057:12..1370			GSP								
26848	ENU10643	ANI61C5181:205..730			GSP								
26849	ENU10644	ANI61C5163:1648..925			GSP								
26850	ENU10645	ANI61C9611:1060..208			GSP								

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
26851	ENU10646	ANI61C6211:5848..3572			GSP								
26852	ENU10647	ANI61C3390:1827..500			GSP								
26853	ENU10648	ANI61C405:2513..1849			GSP								
26854	ENU10649	ANI61C8967:1333..2100			GSP								

Geneset

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26855	ENU10650	ANI61C6915:231..1067			GSP								
26856	ENU10651	ANI61C9116:4511..5203			GSP								
26857	ENU10652	ANI61C2197:153..952			GSP								
26858	ENU10653	ANI61C10269:343..52			GSP								
26859	ENU10654	ANI61C309:1624..2155			GSP								
26860	ENU10655	ANI61C10279:325..3609			GSP								
26861	ENU10656	ANI61C1480:944..27			GSP								
26862	ENU10657	ANI61C10295:2764..2435			GSP								
26863	ENU10658	ANI61C7211:1755..1192			GSP								
26864	ENU10659	ANI61C7220:1287..1690			GSP								

GenBank accession

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr	% Description
26865	ENU10660	ANI61C7233:157..435			GSP								
26866	ENU10661	ANI61C6507:412..1250			GSP								
26867	ENU10662	ANI61C7239:1987..1316			GSP								
26868	ENU10663	ANI61C7239:3400..4598			GSP								
26869	ENU10664	ANI61C9301:875..1414			GSP								
26870	ENU10665	ANI61C7262:357..19			GSP								
26871	ENU10666	ANI61C6551:55..1973			GSP								
26872	ENU10667	ANI61C5824:144..1000			GSP								
26873	ENU10668	ANI61C5838:1710..790			GSP								
26874	ENU10669	ANI61S229:21..272			GSP								
26875	ENU10670	ANI61C6580:954..1271			GSP								
26876	ENU10671	ANI61S247:418..18			GSP								

66666 = 66666666

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26877	ENU10672	ANI61C6599:2219..1887			GSP								
26878	ENU10673	ANI61S277:141..353			GSP								
26879	ENU10674	ANI61C11067:3583..3283	2	3	GSP								
			5	9									
			-	4									
			4	-									
			6	4									
				1									
				7									
26880	ENU10675	ANI61C2213:588..10			GSP								
26881	ENU10676	ANI61C2215:7849..7241			GSP								
26882	ENU10677	ANI61C2223:191..631			GSP								
26883	ENU10678	ANI61C2224:498..845			GSP								
26884	ENU10679	ANI61C2229:298..57			GSP								
26885	ENU10680	ANI61C11020:275..40			GSP								
26886	ENU10681	ANI61C1505:482..971			GSP								
26887	ENU10682	ANI61C10300:973..1299			GSP								
26888	ENU10683	ANI61C11036:2132..1698			GSP								

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
26903	ENU10698	ANI61C1036 1:6952..7162			GSP								
26904	ENU10699	ANI61C1036 3:3081..2758			GSP								
26905	ENU10700	ANI61C1109 8:804..166			GSP								
26906	ENU10701	ANI61C425:6 27..833			GSP								
26907	ENU10702	ANI61C8007: 408..139			GSP								
26908	ENU10703	ANI61C7305: 1365..2019			GSP								
26909	ENU10704	ANI61C7309: 528..756			GSP								
26910	ENU10705	ANI61C474:3 7..324			GSP								
26911	ENU10706	ANI61C7312: 392..165			GSP								
26912	ENU10707	ANI61C485:5 84..121			GSP								
26913	ENU10708	ANI61C6606: 379..762			GSP								
26914	ENU10709	ANI61C8075: 1744..2038			GSP								
26915	ENU10710	ANI61C8086: 1038..1379			GSP								
26916	ENU10711	ANI61C7373: 531..97			GSP								

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26928	ENU10723	ANI61C2339:4593..5853			GSP								
26929	ENU10724	ANI61S1445:217..447			GSP								
26930	ENU10725	ANI61C7400:2503..1237			GSP								
26931	ENU10726	ANI61C3077:672..14			GSP								
26932	ENU10727	ANI61C10411:563..261			GSP								
26933	ENU10728	ANI61S1452:359..18			GSP								
26934	ENU10729	ANI61C2352:176..792			GSP								
26935	ENU10730	ANI61S1463:286..74			GSP								
26936	ENU10731	ANI61C2361:934..60			GSP								
26937	ENU10732	ANI61C2361:3052..3372			GSP								
26938	ENU10733	ANI61C11165:1645..2411			GSP								

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
26939	ENU10734	ANI61C2372:855..1133			GSP								
26940	ENU10735	ANI61C2372:1652..2011			GSP								
26941	ENU10736	ANI61C10454:4570..4971			GSP								
26942	ENU10737	ANI61C1661:882..424			GSP								
26943	ENU10738	ANI61C10474:160..561			GSP								
26944	ENU10739	ANI61C10475:353..12			GSP								
26945	ENU10740	ANI61C1686:634..265			GSP								
26946	ENU10741	ANI61C511:32..511			GSP								
26947	ENU10742	ANI61C511:955..2004			GSP								
26948	ENU10743	ANI61C515:507..1530			GSP								
26949	ENU10744	ANI61C517:636..10			GSP								
26950	ENU10745	ANI61C1697:907..698			GSP								
26951	ENU10746	ANI61C531:313..1072			GSP								
26952	ENU10747	ANI61C534:322..579			GSP								

GenBank - GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
26965	ENU10760	ANI61C6736:2119..302			GSP								
26966	ENU10761	ANI61C8198:666..154			GSP								
26967	ENU10762	ANI61C6749:318..664			GSP								
26968	ENU10763	ANI61C7495:1744..2273			GSP								
26969	ENU10764	ANI61C6784:866..1216			GSP								
26970	ENU10765	ANI61C6791:598..892			GSP								
26971	ENU10766	ANI61S465:199..480			GSP								
26972	ENU10767	ANI61C3116:2211..1954			GSP								
26973	ENU10768	ANI61S2221:292..5			GSP								
26974	ENU10769	ANI61C4578:2006..79			GSP								
26975	ENU10770	ANI61C2435:4559..4236			GSP								

66660" 030000

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
26990	ENU10785	ANI61C1057 5:1238..939			GSP								
26991	ENU10786	ANI61C1057 6:1519..1313			GSP								
26992	ENU10787	ANI61C1780: 503..74			GSP								
26993	ENU10788	ANI61C1780: 2749..3104			GSP								
26994	ENU10789	ANI61C1790: 326..98			GSP								
26995	ENU10790	ANI61C1795: 651..301			GSP								
26996	ENU10791	ANI61C1059 9:1166..697			GSP								
26997	ENU10792	ANI61C1005: 159..644			GSP								
26998	ENU10793	ANI61C8215: 808..223			GSP								
26999	ENU10794	ANI61C8218: 800..126			GSP								
27000	ENU10795	ANI61C655:6 67..230			GSP								
27001	ENU10796	ANI61C7509: 665..59			GSP								

66666 = 66666666

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
27016	ENU10811	ANI61C6825:1110..1553			GSP								
27017	ENU10812	ANI61C6826:892..1134			GSP								
27018	ENU10813	ANI61C8285:680..1088			GSP								
27019	ENU10814	ANI61C11188:1202..234			GSP								
27020	ENU10815	ANI61C6833:47..594			GSP								
27021	ENU10816	ANI61C6845:1225..1545			GSP								
27022	ENU10817	ANI61C6869:444..49			GSP								
27023	ENU10818	ANI61C6876:1362..467			GSP								
27024	ENU10819	ANI61S544:296..29			GSP								
27025	ENU10820	ANI61C3201:1463..2118			GSP								
27026	ENU10821	ANI61C3206:906..20			GSP								
27027	ENU10822	ANI61C3220:676..904			GSP								

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27028	ENU10823	ANI61C3223:111..491			GSP								
27029	ENU10824	ANI61S582:342..4			GSP								
27030	ENU10825	ANI61S1603:33..296			GSP								
27031	ENU10826	ANI61C2502:1047..297			GSP								
27032	ENU10827	ANI61S3077:561..69			GSP								
27033	ENU10828	ANI61C11316:726..373			GSP								
27034	ENU10829	ANI61S2355:2..446			GSP								
27035	ENU10830	ANI61C11323:1295..421			GSP								
27036	ENU10831	ANI61C11334:127..375			GSP								
27037	ENU10832	ANI61S2374:80..323			GSP								
27038	ENU10833	ANI61C2548:2501..2814			GSP								
27039	ENU10834	ANI61C10612:640..35			GSP								
27040	ENU10835	ANI61S2386:120..347			GSP								
27041	ENU10836	ANI61C1820:1305..1067			GSP								

GenBank Submission

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
27042	ENU10837	ANI61C2511:593..144			GSP								
27043	ENU10838	ANI61C1825:96..480			GSP								
27044	ENU10839	ANI61C1827:63..511			GSP								
27045	ENU10840	ANI61C2557:358..11			GSP								
27046	ENU10841	ANI61S1665:225..14			GSP								
27047	ENU10842	ANI61C2564:1021..556			GSP								
27048	ENU10843	ANI61C2564:3000..3693			GSP								
27049	ENU10844	ANI61C2565:1843..1553			GSP								
27050	ENU10845	ANI61C1136:0:423..744			GSP								
27051	ENU10846	ANI61C1136:1:314..753			GSP								
27052	ENU10847	ANI61C1136:5:615..94			GSP								
27053	ENU10848	ANI61C1137:0:1053..437			GSP								

Genes - Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27081	ENU10876	ANI61C6912:1483..1817			GSP								
27082	ENU10877	ANI61C7644:445..945			GSP								
27083	ENU10878	ANI61C8385:774..119			GSP								
27084	ENU10879	ANI61C6940:1685..2623			GSP								
27085	ENU10880	ANI61S606:33..278			GSP								
27086	ENU10881	ANI61C7683:56..815			GSP								
27087	ENU10882	ANI61C7685:651..899			GSP								
27088	ENU10883	ANI61C6973:58..857			GSP								
27089	ENU10884	ANI61C4000:2436..2718			GSP								
27090	ENU10885	ANI61C38:2780..4266			GSP								
27091	ENU10886	ANI61C6988:654..79			GSP								
27092	ENU10887	ANI61C4014:1281..1520			GSP								
27093	ENU10888	ANI61C47:516..59			GSP								
27094	ENU10889	ANI61C4030:795..365			GSP								

Gene description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27095	ENU10890	ANI61C4033:64..360			GSP								
27096	ENU10891	ANI61S3149:137..451			GSP								
27097	ENU10892	ANI61C4041:33..770			GSP								
27098	ENU10893	ANI61C3319:449..210			GSP								
27099	ENU10894	ANI61C87:1360..758			GSP								
27100	ENU10895	ANI61C90:28..383			GSP								
27101	ENU10896	ANI61C9734:25-46136..1020		755-777	GSP								
27102	ENU10897	ANI61C4069:483..163			GSP								
27103	ENU10898	ANI61C11404:3057..1670			GSP								
27104	ENU10899	ANI61C11405:362..983			GSP								
27105	ENU10900	ANI61C11408:48..1109			GSP								
27106	ENU10901	ANI61C4075:1168..899			GSP								
27107	ENU10902	ANI61S1726:161..580			GSP								
27108	ENU10903	ANI61C2623:769..1152			GSP								
27109	ENU10904	ANI61C3354:1852..823			GSP								

GenBank accession

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
27110	ENU10905	ANI61C4083:600..292			GSP								
27111	ENU10906	ANI61C2631:569..96			GSP								
27112	ENU10907	ANI61C2634:575..63			GSP								
27113	ENU10908	ANI61C4098:3119..2841			GSP								
27114	ENU10909	ANI61C11437:2736..3185			GSP								
27115	ENU10910	ANI61C1911:743..462			GSP								
27116	ENU10911	ANI61C1917:658..913			GSP								
27117	ENU10912	ANI61C3375:274..515			GSP								
27118	ENU10913	ANI61C726:125-43519..2739	1184-1203		GSP								
27119	ENU10914	ANI61C3384:522..319			GSP								
27120	ENU10915	ANI61C11453:1122..904			GSP								
27121	ENU10916	ANI61C10726:39..550			GSP								
27122	ENU10917	ANI61S1762:138..449			GSP								
27123	ENU10918	ANI61C10728:504..109			GSP								
27124	ENU10919	ANI61C11458:498..226			GSP								

GenBank accession

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
27125	ENU10920	ANI61C1936:1249..1759			GSP								
27126	ENU10921	ANI61C3394:507..1723			GSP								
27127	ENU10922	ANI61C3396:134..527			GSP								
27128	ENU10923	ANI61C1939:555..292			GSP								
27129	ENU10924	ANI61C11463:2680..3042			GSP								
27130	ENU10925	ANI61S1771:153..362			GSP								
27131	ENU10926	ANI61C2671:319..23			GSP								
27132	ENU10927	ANI61C2672:34..605			GSP								
27133	ENU10928	ANI61C10746:1645..1439			GSP								
27134	ENU10929	ANI61C1950:26..509			GSP								
27135	ENU10930	ANI61C1955:841..1119			GSP								
27136	ENU10931	ANI61C10773:3044..2808			GSP								
27137	ENU10932	ANI61C1987:421..25			GSP								
27138	ENU10933	ANI61C9739:25-451081..2142	1020-1044		GSP								
27139	ENU10934	ANI61C815:505..807			GSP								

GenBank accession

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27140	ENU10935	ANI61C9119:670..385			GSP								
27141	ENU10936	ANI61C1993:578..104			GSP								
27142	ENU10937	ANI61C10797:3932..3549			GSP								
27143	ENU10938	ANI61C9132:954..398			GSP								
27144	ENU10939	ANI61C840:49..456			GSP								
27145	ENU10940	ANI61C849:1187..1681			GSP								
27146	ENU10941	ANI61C876:1590..2086			GSP								
27147	ENU10942	ANI61C7712:42..2293			GSP								
27148	ENU10943	ANI61C9179:6801..6508			GSP								
27149	ENU10944	ANI61C881:819..1067			GSP								
27150	ENU10945	ANI61C7726:1811..2377			GSP								
27151	ENU10946	ANI61C9186:546..1025			GSP								
27152	ENU10947	ANI61C7728:17..352			GSP								
27153	ENU10948	ANI61C8461:1237..130			GSP								

Gene description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27168	ENU10963	ANI61S54:41 6..84			GSP								
27169	ENU10964	ANI61S57:40 5..27			GSP								
27170	ENU10965	ANI61C4111: 381..989			GSP								
27171	ENU10966	ANI61C4118: 1219..627			GSP								
27172	ENU10967	ANI61S62:39 2..105			GSP								
27173	ENU10968	ANI61C4136: 1820..2838			GSP								
27174	ENU10969	ANI61S80:90. .302			GSP								
27175	ENU10970	ANI61C8145: 25-48 425..2575	1462- 1497		GSP								
27176	ENU10971	ANI61S786:8 57..26			GSP								
27177	ENU10972	ANI61C2704: 1830..1507			GSP								
27178	ENU10973	ANI61C4171: 1698..76			GSP								
27179	ENU10974	ANI61C3448: 29..325			GSP								
27180	ENU10975	ANI61C3467: 382..22			GSP								
27181	ENU10976	ANI61C3469: 29..429			GSP								
27182	ENU10977	ANI61C2740: 1333..855			GSP								

Genomic Coordinates

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
27183	ENU10978	ANI61C2762: 566..303			GSP								
27184	ENU10979	ANI61C6697: 25-46 2040..2513	428-456		GSP								
27185	ENU10980	ANI61S1889: 276..489			GSP								
27186	ENU10981	ANI61C1085 3:912..3556			GSP								
27187	ENU10982	ANI61C1085 7:388..684			GSP								
27188	ENU10983	ANI61C2796: 651..1025			GSP								
27189	ENU10984	ANI61C910:2 343..2119			GSP								
27190	ENU10985	ANI61C1088 3:1002..601			GSP								
27191	ENU10986	ANI61C9218: 232..642			GSP								
27192	ENU10987	ANI61C927:2 538..2790			GSP								
27193	ENU10988	ANI61C9232: 396..1202			GSP								
27194	ENU10989	ANI61C944:1 483..1128			GSP								
27195	ENU10990	ANI61C8518: 97..1204			GSP								
27196	ENU10991	ANI61C950:3 56..47			GSP								
27197	ENU10992	ANI61C8529: 4191..4479			GSP								

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27198	ENU10993	ANI61C963:1 068..1394			GSP								
27199	ENU10994	ANI61C9261: 723..1335			GSP								
27200	ENU10995	ANI61C8533: 199..436			GSP								
27201	ENU10996	ANI61C8534: 3831..4522			GSP								
27202	ENU10997	ANI61C8539: 1603..2387			GSP								
27203	ENU10998	ANI61C8543: 3298..2891			GSP								
27204	ENU10999	ANI61C7818: 15..251			GSP								
27205	ENU11000	ANI61C9283: 759..70			GSP								
27206	ENU11001	ANI61C9284: 569..336			GSP								
27207	ENU11002	ANI61C9284: 2239..1572			GSP								
27208	ENU11003	ANI61C7852: 17..259			GSP								
27209	ENU11004	ANI61C7868: 1327..541			GSP								
27210	ENU11005	ANI61C7532: 25-48 5139..3735		1200- 1227	GSP								
27211	ENU11006	ANI61C7889: 134..827			GSP								
27212	ENU11007	ANI61C4201: 651..966			GSP								

Gene description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27213	ENU11008	ANI61C4231:1045..2050			GSP								
27214	ENU11009	ANI61C4240:1802..1443			GSP								
27215	ENU11010	ANI61S870:75..413			GSP								
27216	ENU11011	ANI61S887:533..71			GSP								
27217	ENU11012	ANI61S1900:242..36			GSP								
27218	ENU11013	ANI61S3362:59..322			GSP								
27219	ENU11014	ANI61C4253:25-50390..2994	2512-2538		GSP								
27220	ENU11015	ANI61C2823:703..311			GSP								
27221	ENU11016	ANI61S1936:3..307			GSP								
27222	ENU11017	ANI61C3564:2741..2421			GSP								
27223	ENU11018	ANI61C4294:945..11			GSP								
27224	ENU11019	ANI61C10903:2408..2130			GSP								
27225	ENU11020	ANI61C10909:1207..1480			GSP								
27226	ENU11021	ANI61C3574:621..271			GSP								
27227	ENU11022	ANI61C2851:338..80			GSP								

Genomic Data

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27242	ENU11037	ANI61C9361:557..778			GSP								
27243	ENU11038	ANI61C7928:221..433			GSP								
27244	ENU11039	ANI61C8660:282..67			GSP								
27245	ENU11040	ANI61C8665:843..43			GSP								
27246	ENU11041	ANI61C436:1 25-56 008..310		654-681	GSP								
27247	ENU11042	ANI61S4105:384..647			GSP								
27248	ENU11043	ANI61C7982:418..837			GSP								
27249	ENU11044	ANI61S913:2 1..650			GSP								
27250	ENU11045	ANI61S914:2 87..17			GSP								
27251	ENU11046	ANI61C7994:2149..1727			GSP								
27252	ENU11047	ANI61C5022:120..566			GSP								
27253	ENU11048	ANI61C5038:51..367			GSP								
27254	ENU11049	ANI61C4328:1036..666			GSP								
27255	ENU11050	ANI61S3430:399..154			GSP								
27256	ENU11051	ANI61S3435:47..548			GSP								

66660" Q2547676

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27272	ENU11067	ANI61C2911:1220..756			GSP								
27273	ENU11068	ANI61C4375:338..66			GSP								
27274	ENU11069	ANI61C2923:988..683			GSP								
27275	ENU11070	ANI61C2924:567..58			GSP								
27276	ENU11071	ANI61C4383:1284..1505			GSP								
27277	ENU11072	ANI61C4385:10..543			GSP								
27278	ENU11073	ANI61C4389:577..53			GSP								
27279	ENU11074	ANI61C3666:851..1157			GSP								
27280	ENU11075	ANI61C3670:903..583			GSP								
27281	ENU11076	ANI61C2943:480..108			GSP								
27282	ENU11077	ANI61C3673:423..752			GSP								
27283	ENU11078	ANI61S2784:42..286			GSP								
27284	ENU11079	ANI61S2792:253..29			GSP								
27285	ENU11080	ANI61C1079 25-54	862-885		GSP								
27286	ENU11081	ANI61C2976:3215..3739			GSP								

GenBank = GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27316	ENU11111	ANI61C3754: 3331..3726			GSP								
27317	ENU11112	ANI61C3761: 33..389			GSP								
27318	ENU11113	ANI61C3784: 637..260			GSP								
27319	ENU11114	ANI61C3784: 972..1225			GSP								
27320	ENU11115	ANI61C3791: 28..648			GSP								
27321	ENU11116	ANI61C9503: 1086..832			GSP								
27322	ENU11117	ANI61C8804: 20..376			GSP								
27323	ENU11118	ANI61C9553: 5754..6136			GSP								
27324	ENU11119	ANI61C8826: 1028..2376			GSP								
27325	ENU11120	ANI61C9579: 588..247			GSP								
27326	ENU11121	ANI61C8850: 1149..554			GSP								
27327	ENU11122	ANI61C9580: 3119..2889			GSP								
27328	ENU11123	ANI61C8890: 3006..2620			GSP								
27329	ENU11124	ANI61C8891: 1547..1314			GSP								

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27359	ENU111154	ANI61C6037: 45..452			GSP								
27360	ENU111155	ANI61C6049: 2643..2927			GSP								
27361	ENU111156	ANI61C6054: 617..180			GSP								
27362	ENU111157	ANI61C5326: 269..673			GSP								
27363	ENU111158	ANI61C6063: 548..247			GSP								
27364	ENU111159	ANI61C4630: 121..563			GSP								
27365	ENU111160	ANI61C5365: 985..1310			GSP								
27366	ENU111161	ANI61S4484: 249..611			GSP								
27367	ENU111162	ANI61C3921: 953..1335			GSP								
27368	ENU111163	ANI61C3921: 2779..2390			GSP								
27369	ENU111164	ANI61C4653: 2087..1719			GSP								
27370	ENU111165	ANI61C4654: 1614..1315			GSP								
27371	ENU111166	ANI61C4658: 914..174			GSP								
27372	ENU111167	ANI61S3763: 74..559			GSP								

Table 6.6.6

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27430	ENU11225	ANI61C6280:695..384			GSP								
27431	ENU11226	ANI61C1085	25-42	1030-1050	GSP								
27432	ENU11227	ANI61C6289:635..118			GSP								
27433	ENU11228	ANI61C5562:115..501			GSP								
27434	ENU11229	ANI61C4861:232..549			GSP								
27435	ENU11230	ANI61C4883:540..944			GSP								
27436	ENU11231	ANI61C4886:692..387			GSP								
27437	ENU11232	ANI61C4888:735..28			GSP								
27438	ENU11233	ANI61C1000	5:1..846		GSP								
27439	ENU11234	ANI61C1212:2420..1437			GSP								
27440	ENU11235	ANI61C1212:7293..7081			GSP								
27441	ENU11236	ANI61C1215:1067..828			GSP								
27442	ENU11237	ANI61C1001	9:66..374		GSP								
27443	ENU11238	ANI61C1001	9:1431..1786		GSP								
27444	ENU11239	ANI61S1058:463..56			GSP								

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27445	ENU11240	ANI61C1002 4:388..146			GSP								
27446	ENU11241	ANI61C1004 2:147..493			GSP								
27447	ENU11242	ANI61C3535: 25-47 237..1526	1027-	1050	GSP								
27448	ENU11243	ANI61C5361: 25-49 1482..2129	606-630		GSP								
27449	ENU11244	ANI61C1043 25-43 6:4516..4046	434-453		GSP								
27450	ENU11245	ANI61C8290: 25-50 534..196	296-321		GSP								
27451	ENU11246	ANI61C8406: 25-48 1268..512	723-747		GSP								
27452	ENU11247	ANI61C3560: 25-50 547..1	736-762		GSP								
27453	ENU11248	ANI61C9221: 25-48 3343..4865	1159-	1182	GSP								
27454	ENU11249	ANI61C9335: 25-53 79..726	605-630		GSP								
27455	ENU11250	ANI61C4319: 25-48 596..2490	1770-	1794	GSP								
27456	ENU11251	ANI61C1135 25-54 4:738..97	598-624		GSP								
27457	ENU11252	ANI61C9630: 25-54 6026..5230	693-723		GSP								
27458	ENU11253	ANI61C3:451 25-49 ..1	487-516		GSP								
27459	ENU11254	ANI61C3101: 25-56 38..1916	1124-	1152	GSP								
27460	ENU11255	ANI61C7406: 25-51 933..374	473-492		GSP								
27461	ENU11256	ANI61C2199: 25-42 808..1	822-843		GSP								
27462	ENU11257	ANI61C1140 25-44 4:2738..1670	829-855		GSP								

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27463	ENU11258	ANI61C6375: 70..780	25-48	664-693	GSP								
27464	ENU11259	ANI61C3570: 4375..1718	25-47	2514-2538	GSP								
27465	ENU11260	ANI61C8506: 1702..2790	25-53	1048-1071	GSP								
27466	ENU11261	ANI61C5:911 ..522	25-44	347-372	GSP								
27467	ENU11262	ANI61C2228: 1078..400	25-47	588-612	GSP								
27468	ENU11263	ANI61C1229: 10663..12053	25-52	1031-1053	GSP								
27469	ENU11264	ANI61C2474: 1094..1708	25-48	571-597	GSP								
27470	ENU11265	ANI61C3401: 3819..1936	25-44	1674-1692	GSP								
27471	ENU11266	ANI61C7804: 2471..609	25-49	1714-1740	GSP								
27472	ENU11267	ANI61C1413: 4385..3561	25-52	773-807	GSP								
27473	ENU11268	ANI61C1078 6:2202..968	25-48	957-984	GSP								
27474	ENU11269	ANI61C3185: 2066..1480	25-47	549-573	GSP								
27475	ENU11270	ANI61C9745: 501..1022	25-50	481-504	GSP								
27476	ENU11271	ANI61C1075 6:864..2078	25-48	1174-1197	GSP								
27477	ENU11272	ANI61C8415: 2475..2142	25-53	550-579	GSP								
27478	ENU11273	ANI61C147:1 080..515	25-59	506-534	GSP								
27479	ENU11274	ANI61C8168: 313..669	25-45	312-339	GSP								
27480	ENU11275	ANI61C297:5 607..4879	25-47	697-726	GSP								
27481	ENU11276	ANI61C6326: 2829..1254	25-46	1173-1200	GSP								

GenBank - GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27482	ENU11277	ANI61C1044 6:7194..6514	25-51	639-663	GSP								
27483	ENU11278	ANI61C8003: 25-52 1818..1891	25-52	1057-1086	GSP								
27484	ENU11279	ANI61C8107: 25-43 713..2196	25-43	1246-1269	GSP								
27485	ENU11280	ANI61C7096: 25-42 132..1272	25-42	1035-1062	GSP								
27486	ENU11281	ANI61C1232: 25-45 2724..1345	25-45	1117-1146	GSP								
27487	ENU11282	ANI61C1097 25-49 9:137..967	25-49	733-750	GSP								
27488	ENU11283	ANI61C5397: 25-43 1095..2412	25-43	1232-1254	GSP								
27489	ENU11284	ANI61C3282: 25-48 159..1181	25-48	979-1005	GSP								
27490	ENU11285	ANI61C9348: 25-53 3299..2421	25-53	797-819	GSP								
27491	ENU11286	ANI61C4800: 25-43 1832..3077	25-43	1279-1311	GSP								
27492	ENU11287	ANI61C4256: 25-51 566..33	25-51	493-516	GSP								
27493	ENU11288	ANI61C1134 25-50 6:1472..487	25-50	810-834	GSP								
27494	ENU11289	ANI61C4213: 25-47 1527..671	25-47	758-780	GSP								
27495	ENU11290	ANI61C479:3 25-49 3..473	25-49	395-423	GSP								
27496	ENU11291	ANI61C6489: 25-48 268..3596	25-48	2459-2490	GSP								
27497	ENU11292	ANI61C2618: 25-51 90..965	25-51	836-858	GSP								
27498	ENU11293	ANI61C5742: 25-43 957..452	25-43	473-495	GSP								
27499	ENU11294	ANI61C1141 25-56 9:151..1266	25-56	1066-1098	GSP								
27500	ENU11295	ANI61C35:19 25-45 89..684	25-45	1075-1092	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27501	ENU11296	ANI61C9640: 25-48 121..569	25-48	412-438	GSP								
27502	ENU11297	ANI61C6944: 25-50 2214..514	25-50	1601-1632	GSP								
27503	ENU11298	ANI61C1072: 25-51 2588..3558	25-51	862-891	GSP								
27504	ENU11299	ANI61C1075 25-53 2:1..831	25-53	1134-1167	GSP								
27505	ENU11300	ANI61C1651: 25-51 2327..2689	25-51	324-345	GSP								
27506	ENU11301	ANI61C4544: 25-47 485..1764	25-47	872-897	GSP								
27507	ENU11302	ANI61C9753: 25-55 495..1130	25-55	589-618	GSP								
27508	ENU11303	ANI61C1040 25-48 4:3494..3038	25-48	438-459	GSP								
27509	ENU11304	ANI61C3663: 25-50 53..781	25-50	685-711	GSP								
27510	ENU11305	ANI61C8074: 25-52 1760..2561	25-52	625-654	GSP								
27511	ENU11306	ANI61C8623: 25-48 4801..5229	25-48	405-435	GSP								
27512	ENU11307	ANI61C9552: 25-46 2908..1237	25-46	1428-1458	GSP								
27513	ENU11308	ANI61C6472: 25-48 135..851	25-48	674-699	GSP								
27514	ENU11309	ANI61C1041 25-45 7:735..1262	25-45	487-510	GSP								
27515	ENU11310	ANI61C1006: 25-45 2144..2787	25-45	609-630	GSP								
27516	ENU11311	ANI61C8909: 25-54 2220..2828	25-54	571-594	GSP								
27517	ENU11312	ANI61C895:3 25-50 078..1361	25-50	1010-1035	GSP								
27518	ENU11313	ANI61C7397: 25-48 7..963	25-48	906-939	GSP								
27519	ENU11314	ANI61C5665: 25-48 1634..2017	25-48	341-366	GSP								

blast - comparison

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27520	ENU11315	ANI61C8180: 381..894	25-51	517-543	GSP								
27521	ENU11316	ANI61C1008 9:1402..454	25-51	907-930	GSP								
27522	ENU11317	ANI61C7548: 252..899	25-48	597-630	GSP								
27523	ENU11318	ANI61C9033: 2175..2843	25-52	1093-1116	GSP								
27524	ENU11319	ANI61C5893: 133..714	25-54	543-567	GSP								
27525	ENU11320	ANI61C2666: 4964..4109	25-46	755-780	GSP								
27526	ENU11321	ANI61C9776: 4636..2066	25-50	2275-2298	GSP								
27527	ENU11322	ANI61C9714: 1172..687	25-48	445-468	GSP								
27528	ENU11323	ANI61C1103 8:1841..956	25-46	808-828	GSP								
27529	ENU11324	ANI61C9251: 4545..3844	25-51	660-684	GSP								
27530	ENU11325	ANI61C6165: 297..605	25-42	267-291	GSP								
27531	ENU11326	ANI61C1252: 2607..4768	25-48	1486-1509	GSP								
27532	ENU11327	ANI61C7675: 2330..4510	25-48	1935-1959	GSP								
27533	ENU11328	ANI61C1022 7:997..1659	25-44	627-645	GSP								
27534	ENU11329	ANI61C1026 0:857..2059	25-55	906-930	GSP								
27535	ENU11330	ANI61C1019 8:23..1003	25-46	858-885	GSP								
27536	ENU11331	ANI61C7931: 674..357	25-48	276-300	GSP								
27537	ENU11332	ANI61C7943: 3406..2876	25-45	488-513	GSP								
27538	ENU11333	ANI61C8830: 3094..1628	25-47	1289-1314	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27539	ENU11334	ANI61C7855: 551..4065	25-48	1454-1482	GSP								
27540	ENU11335	ANI61C8464: 1076..756	25-47	272-303	GSP								
27541	ENU11336	ANI61C7650: 1237..711	25-53	585-615	GSP								
27542	ENU11337	ANI61C5313: 1474..102	25-57	941-969	GSP								
27543	ENU11338	ANI61C3043: 526..89	25-46	398-420	GSP								
27544	ENU11339	ANI61C1139: 383..1322	25-47	732-759	GSP								
27545	ENU11340	ANI61C598:2 020..685	25-43	1250-1269	GSP								
27546	ENU11341	ANI61C3699: 3386..3921	25-46	773-795	GSP								
27547	ENU11342	ANI61C9796: 2338..905	25-48	1264-1290	GSP								
27548	ENU11343	ANI61C1118 2:4620..4006	25-45	565-597	GSP								
27549	ENU11344	ANI61C8725: 211..1294	25-43	951-975	GSP								
27550	ENU11345	ANI61C9321: 11..1124	25-43	1005-1023	GSP								
27551	ENU11346	ANI61C58:13 11..730	25-48	540-564	GSP								
27552	ENU11347	ANI61C5896: 1167..1736	25-43	520-552	GSP								
27553	ENU11348	ANI61C1880: 75..1179	25-47	1009-1032	GSP								
27554	ENU11349	ANI61C768:4 9..747	25-44	664-681	GSP								
27555	ENU11350	ANI61C4397: 3721..4874	25-44	967-999	GSP								
27556	ENU11351	ANI61C893:3 49..780	25-45	391-414	GSP								
27557	ENU11352	ANI61C9103: 2711..1350	25-58	1288-1314	GSP								

GeneSet

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27558	ENU11353	ANI61C8197: 866..1405	25-54	497-522	GSP								
27559	ENU11354	ANI61C8501: 1199..732	25-46	424-450	GSP								
27560	ENU11355	ANI61C7392: 1307..612	25-48	655-678	GSP								
27561	ENU11356	ANI61C7053: 1220..629	25-60	541-573	GSP								
27562	ENU11357	ANI61C1804: 1787..773	25-47	755-774	GSP								
27563	ENU11358	ANI61C1355: 1254..2042	25-52	584-609	GSP								
27564	ENU11359	ANI61C2838: 6425..6087	25-45	295-321	GSP								
27565	ENU11360	ANI61C1086 4:3344..3613	25-47	229-255	GSP								
27566	ENU11361	ANI61C1146 1:2212..1167	25-58	1005-1029	GSP								
27567	ENU11362	ANI61C4813: 4104..4746	25-45	531-555	GSP								
27568	ENU11363	ANI61C1814: 2039..1032	25-52	911-939	GSP								
27569	ENU11364	ANI61C7559: 4250..3190	25-47	1058-1086	GSP								
27570	ENU11365	ANI61C9673: 3334..4958	25-48	963-990	GSP								
27571	ENU11366	ANI61C4359: 3326..1254	25-49	1760-1791	GSP								
27572	ENU11367	ANI61C260:7 1..464	25-46	381-405	GSP								
27573	ENU11368	ANI61C136:2 563..3117	25-47	542-567	GSP								
27574	ENU11369	ANI61C5892: 2984..2430	25-49	511-537	GSP								
27575	ENU11370	ANI61C322:1 3897..12947	25-48	907-933	GSP								
27576	ENU11371	ANI61C96:26 58..2218	25-53	396-423	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27577	ENU11372	ANI61C7532: 1878..2936	25-48	956-990	GSP								
27578	ENU11373	ANI61C3691: 1666..1058	25-57	567-591	GSP								
27579	ENU11374	ANI61C6754: 2578..2977	25-47	354-387	GSP								
27580	ENU11375	ANI61C1695: 2048..1590	25-53	412-441	GSP								
27581	ENU11376	ANI61C9665: 1466..933	25-44	499-516	GSP								
27582	ENU11377	ANI61C5460: 418..86	25-53	289-315	GSP								
27583	ENU11378	ANI61C8016: 4563..5658	25-47	1001-1026	GSP								
27584	ENU11379	ANI61C1032: 6:526..126	25-52	368-390	GSP								
27585	ENU11380	ANI50C1_16: 62:883..2658	25-51	2072-2097	GSP								
27586	ENU11381	ANI61C1043: 3:6045..5383	25-46	636-657	GSP								
27587	ENU11382	ANI61C1800: 2853..4234	25-44	1264-1281	GSP								
27588	ENU11383	ANI61C1118: 5:6336..4674	25-48	1323-1350	GSP								
27589	ENU11384	ANI61C7218: 2298..1016	25-46	1191-1212	GSP								
27590	ENU11385	ANI61C1135: 0:1359..814	25-45	502-528	GSP								
27591	ENU11386	ANI61C7821: 120..1235	25-43	1004-1029	GSP								
27592	ENU11387	ANI61C1030: 0:6596..8562	25-47	1600-1626	GSP								
27593	ENU11388	ANI61C7114: 919..1173	25-48	210-240	GSP								
27594	ENU11389	ANI61C8869: 652..1	25-54	1118-1143	GSP								
27595	ENU11390	ANI61C9317: 1013..2138	25-60	1033-1056	GSP								

Gene description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27596	ENU11391	ANI61C3861: 1592..4032	25-47	959-981	GSP								
27597	ENU11392	ANI61C1756: 871..1219	25-49	308-333	GSP								
27598	ENU11393	ANI61C5231: 1674..696	25-44	894-918	GSP								
27599	ENU11394	ANI61C9788: 2539..3917	25-47	1185-1203	GSP								
27600	ENU11395	ANI61C9195: 1475..1239	25-47	194-219	GSP								
27601	ENU11396	ANI61C6617: 3155..4344	25-52	1122-1152	GSP								
27602	ENU11397	ANI61C6535: 1511..1177	25-49	296-318	GSP								
27603	ENU11398	ANI61C9071: 1813..3126	25-46	1206-1230	GSP								
27604	ENU11399	ANI61C1739: 1900..2871	25-42	850-873	GSP								
27605	ENU11400	ANI50S1653: 430..35	25-49	349-378	GSP								
27606	ENU11401	ANI61C3457: 487..1486	25-50	962-987	GSP								
27607	ENU11402	ANI61C1475: 138..605	25-48	425-450	GSP								
27608	ENU11403	ANI61C2359: 482..865	25-53	341-366	GSP								
27609	ENU11404	ANI61C3844: 1874..2723	25-43	686-714	GSP								
27610	ENU11405	ANI61C5924: 5506..6654	25-45	1108-1131	GSP								
27611	ENU11406	ANI61C5371: 689..107	25-43	329-348	GSP								
27612	ENU11407	ANI61C2188: 18..500	25-44	443-465	GSP								
27613	ENU11408	ANI61C5986: 769..1257	25-46	448-471	GSP								
27614	ENU11409	ANI61C876:3 855..2439	25-54	1203-1224	GSP								

THE **WORLD'S** **LARGEST** **BOOKSTORE**

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27615	ENU11410	ANI61C933:1 18..759	25-46	600-624	GSP								
27616	ENU11411	ANI61C8913:1029..1775	25-54	550-579	GSP								
27617	ENU11412	ANI61C7276:4864..4605	25-57	221-252	GSP								
27618	ENU11413	ANI61C2256:1735..606	25-47	1025-1047	GSP								
27619	ENU11414	ANI61C1054:4:503..953	25-50	407-435	GSP								
27620	ENU11415	ANI61C9758:1291..272	25-50	972-1002	GSP								
27621	ENU11416	ANI61C5574:2590..856	25-48	1435-1467	GSP								
27622	ENU11417	ANI61C4363:1260..137	25-42	1043-1062	GSP								
27623	ENU11418	ANI61C1099:7:2080..108	25-49	1061-1086	GSP								
27624	ENU11419	ANI50C1_17:81:936..1	25-49	996-1023	GSP								
27625	ENU11420	ANI61C7914:563..1938	25-49	1131-1155	GSP								
27626	ENU11421	ANI61C3038:213..730	25-47	476-501	GSP								
27627	ENU11422	ANI61C7020:2298..3054	25-45	657-684	GSP								
27628	ENU11423	ANI61C1059:1:1229..1702	25-47	494-522	GSP								
27629	ENU11424	ANI61C192:7:3..90	25-48	993-1020	GSP								
27630	ENU11425	ANI61C568:4:528..5616	25-57	1010-1038	GSP								
27631	ENU11426	ANI61C9927:853..1380	25-51	481-510	GSP								
27632	ENU11427	ANI61C7519:2104..4116	25-48	1284-1308	GSP								
27633	ENU11428	ANI61C4745:2939..1121	25-43	534-558	GSP								

66660"0234460

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27634	ENU11429	ANI61C289:8 40..1379	25-50	504-528	GSP								
27635	ENU11430	ANI61C2584: 23..1297	25-47	1140- 1158	GSP								
27636	ENU11431	ANI61C9760: 2594..369	25-50	1439- 1461	GSP								
27637	ENU11432	ANI61C5994: 3589..4155	25-48	520-549	GSP								
27638	ENU11433	ANI61C4612: 4670..4903	25-48	194-216	GSP								
27639	ENU11434	ANI61C685:2 982..777	25-50	1514- 1545	GSP								
27640	ENU11435	ANI61C651:2 322..3137	25-48	628-660	GSP								
27641	ENU11436	ANI61C6088: 217..1433	25-45	986-1008	GSP								
27642	ENU11437	ANI61C1141 7:554..1688	25-48	1045- 1068	GSP								
27643	ENU11438	ANI61C9830: 3483..3914	25-47	381-414	GSP								
27644	ENU11439	ANI61C1110 5:798..596	25-44	190-210	GSP								
27645	ENU11440	ANI61C9652: 941..1967	25-44	903-927	GSP								
27646	ENU11441	ANI61C637:4 88..1102	25-49	574-597	GSP								
27647	ENU11442	ANI61C1148: 2120..742	25-43	1163- 1182	GSP								
27648	ENU11443	ANI61C3716: 1618..917	25-55	655-684	GSP								
27649	ENU11444	ANI61C9449: 9108..9936	25-53	684-708	GSP								
27650	ENU11445	ANI61C5861: 1042..596	25-46	407-429	GSP								
27651	ENU11446	ANI61C3679: 1524..2664	25-44	1044- 1068	GSP								
27652	ENU11447	ANI61C232:9 06..2267	25-60	1218- 1248	GSP								

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27653	ENU11448	ANI61C1307: 25-47 162..777	25-47	498-525	GSP								
27654	ENU11449	ANI61C6595: 25-53 407..83	25-53	283-306	GSP								
27655	ENU11450	ANI61C563:4 25-56 233..3763	25-56	418-453	GSP								
27656	ENU11451	ANI61C1467: 25-60 2609..701	25-60	1564-1587	GSP								
27657	ENU11452	ANI61C9661: 25-42 943..2650	25-42	1463-1491	GSP								
27658	ENU11453	ANI61C1899: 25-49 279..1569	25-49	1051-1077	GSP								
27659	ENU11454	ANI61C314:3 25-45 569..3009	25-45	523-543	GSP								
27660	ENU11455	ANI61C4652: 25-45 4539..3879	25-45	623-642	GSP								
27661	ENU11456	ANI61C7344: 25-46 553..1427	25-46	717-744	GSP								
27662	ENU11457	ANI61C1102: 25-49 1007..399	25-49	533-552	GSP								
27663	ENU11458	ANI61C1103 25-48 0:990..2243	25-48	1184-1206	GSP								
27664	ENU11459	ANI61C5963: 25-48 1484..775	25-48	683-711	GSP								
27665	ENU11460	ANI61C2577: 25-45 1..920	25-45	853-876	GSP								
27666	ENU11461	ANI61C7847: 25-55 934..2031	25-55	943-966	GSP								
27667	ENU11462	ANI61C1359: 25-47 1154..759	25-47	355-378	GSP								
27668	ENU11463	ANI61C4272: 25-52 1785..2238	25-52	406-435	GSP								
27669	ENU11464	ANI61C3320: 25-49 3935..2344	25-49	1488-1518	GSP								
27670	ENU11465	ANI61C3350: 25-46 544..3	25-46	508-528	GSP								
27671	ENU11466	ANI61C9980: 25-48 1297..2692	25-48	1290-1317	GSP								

GenBank - Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27672	ENU11467	ANI61C882:5 6..977	25-44	758-783	GSP								
27673	ENU11468	ANI61C9307: 25-42 2057..1566	25-42	441-465	GSP								
27674	ENU11469	ANI61C1124 25-58 9:1741..316	25-58	1238-1266	GSP								
27675	ENU11470	ANI61C1001 25-48 3:112..515	25-48	363-390	GSP								
27676	ENU11471	ANI61C8854: 25-48 2501..3411	25-48	854-879	GSP								
27677	ENU11472	ANI61C4876: 25-47 2800..1012	25-47	1644-1674	GSP								
27678	ENU11473	ANI61C7173: 25-50 5929..5225	25-50	533-564	GSP								
27679	ENU11474	ANI61C8248: 25-46 2447..1223	25-46	1181-1206	GSP								
27680	ENU11475	ANI61C2533: 25-51 2792..1137	25-51	574-606	GSP								
27681	ENU11476	ANI61C6294: 25-42 3387..2965	25-42	326-348	GSP								
27682	ENU11477	ANI61C464:1 25-46 543..3274	25-46	1075-1107	GSP								
27683	ENU11478	ANI61C9211: 25-43 841..463	25-43	342-363	GSP								
27684	ENU11479	ANI61C6804: 25-47 8679..9269	25-47	550-573	GSP								
27685	ENU11480	ANI61C2881: 25-48 505..23	25-48	432-465	GSP								
27686	ENU11481	ANI61C8985: 25-42 1757..702	25-42	854-882	GSP								
27687	ENU11482	ANI61C5083: 25-47 691..329	25-47	327-345	GSP								
27688	ENU11483	ANI61C1139 25-48 7:3768..2577	25-48	1118-1143	GSP								
27689	ENU11484	ANI61C6772: 25-51 2789..4449	25-51	904-936	GSP								
27690	ENU11485	ANI61C9746: 25-51 1356..2228	25-51	748-771	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27691	ENU11486	ANI61C4946: 609..1052	25-44	403-426	GSP								
27692	ENU11487	ANI61C7341: 541..603	25-45	729-756	GSP								
27693	ENU11488	ANI61C6284: 7676..7242	25-53	515-540	GSP								
27694	ENU11489	ANI61C1040 1:3381..2461	25-52	879-903	GSP								
27695	ENU11490	ANI61C9107: 478..1571	25-53	748-774	GSP								
27696	ENU11491	ANI61C9874: 774..512	25-48	225-255	GSP								
27697	ENU11492	ANI61C964:1 083..1	25-42	788-807	GSP								
27698	ENU11493	ANI61C1108 5:2466..1852	25-53	538-561	GSP								
27699	ENU11494	ANI61C3155: 481..94	25-53	343-369	GSP								
27700	ENU11495	ANI61C8709: 61..986	25-42	834-855	GSP								
27701	ENU11496	ANI61C1107 3:5723..4794	25-47	755-777	GSP								
27702	ENU11497	ANI61C914:2 931..3284	25-52	307-336	GSP								
27703	ENU11498	ANI61C4106: 533..1172	25-55	475-498	GSP								
27704	ENU11499	ANI61C7970: 2763..3219	25-51	416-438	GSP								
27705	ENU11500	ANI50S6383: 13..372	25-54	321-342	GSP								
27706	ENU11501	ANI61C6472: 1637..1182	25-54	411-438	GSP								
27707	ENU11502	ANI61C8244: 480..770	25-46	249-273	GSP								
27708	ENU11503	ANI61C1019 7:5179..4682	25-48	410-438	GSP								
27709	ENU11504	ANI61C219:4 13..4670	25-51	2570-2589	GSP								

GenBank Submission

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cavg	Description
27710	ENU11505	ANI61C6416: 1480..1088	25-48	354-375	GSP								
27711	ENU11506	ANI61C7966: 1106..2826	25-49	413-444	GSP								
27712	ENU11507	ANI61C2688: 3750..5147	25-48	1090-1116	GSP								
27713	ENU11508	ANI61S105:2 47..513	25-45	227-249	GSP								
27714	ENU11509	ANI61C4242: 1336..1031	25-49	261-288	GSP								
27715	ENU11510	ANI61C6934: 803..97	25-60	2030-2055	GSP								
27716	ENU11511	ANI61S829:4 54..167	25-54	238-270	GSP								
27717	ENU11512	ANI61C2036: 438..109	25-51	292-315	GSP								
27718	ENU11513	ANI61C2577: 1478..1074	25-53	499-519	GSP								
27719	ENU11514	ANI61C3701: 4036..4338	25-52	250-285	GSP								
27720	ENU11515	ANI61C1100 0:3720..4763	25-48	778-807	GSP								
27721	ENU11516	ANI61C7269: 2616..1530	25-48	907-933	GSP								
27722	ENU11517	ANI61C8731: 4102..1416	25-43	1465-1494	GSP								
27723	ENU11518	ANI61C7573: 436..885	25-44	405-432	GSP								
27724	ENU11519	ANI61C9156: 597..73	25-43	485-507	GSP								
27725	ENU11520	ANI61C3399: 2610..1263	25-49	1236-1263	GSP								
27726	ENU11521	ANI61C7310: 4839..4856	25-53	1031-1056	GSP								
27727	ENU11522	ANI61C2940: 436..59	25-48	325-360	GSP								
27728	ENU11523	ANI61C3578: 1486..2709	25-56	729-759	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27729	ENU11524	ANI61C6337: 25-48 2083..1545	25-48	500-525	GSP								
27730	ENU11525	ANI61C8092: 25-49 763..1203	25-49	396-423	GSP								
27731	ENU11526	ANI61C9171: 25-48 1959..597	25-48	1111-1146	GSP								
27732	ENU11527	ANI61C59:18 25-43 74..3318	25-43	1276-1296	GSP								
27733	ENU11528	ANI61C7697: 25-51 2063..382	25-51	1409-1440	GSP								
27734	ENU11529	ANI61C3180: 25-48 248..1172	25-48	633-660	GSP								
27735	ENU11530	ANI61C1148 25-45 4:737..1733	25-45	821-846	GSP								
27736	ENU11531	ANI61C3701: 25-48 3089..3358	25-48	228-252	GSP								
27737	ENU11532	ANI61C1060 25-42 3:2742..1457	25-42	1103-1128	GSP								
27738	ENU11533	ANI61C5772: 25-51 406..35	25-51	334-354	GSP								
27739	ENU11534	ANI61C2468: 25-45 2924..3410	25-45	492-522	GSP								
27740	ENU11535	ANI61C7430: 25-46 3283..2845	25-46	704-735	GSP								
27741	ENU11536	ANI61C634:3 25-49 6..485	25-49	406-432	GSP								
27742	ENU11537	ANI61C3266: 25-54 674..1356	25-54	579-603	GSP								
27743	ENU11538	ANI61C6843: 25-52 2045..170	25-52	1757-1779	GSP								
27744	ENU11539	ANI61C3259: 25-49 62..382	25-49	280-303	GSP								
27745	ENU11540	ANI61C4194: 25-50 1485..760	25-50	583-606	GSP								
27746	ENU11541	ANI61C315:3 25-51 283..2772	25-51	469-495	GSP								
27747	ENU11542	ANI61C6591: 25-54 1148..2018	25-54	771-795	GSP								

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27748	ENU11543	ANI61C9849: 1675..748	25-50	876-894	GSP								
27749	ENU11544	ANI61C1045 8:8291..7277	25-46	831-852	GSP								
27750	ENU11545	ANI61C5197: 1059..1580	25-49	481-504	GSP								
27751	ENU11546	ANI61C6630: 696..15	25-47	744-777	GSP								
27752	ENU11547	ANI61C820:3 69..3066	25-49	2398-2427	GSP								
27753	ENU11548	ANI61C1141 2:2065..47	25-49	1873-1899	GSP								
27754	ENU11549	ANI61C7335: 1416..449	25-48	787-816	GSP								
27755	ENU11550	ANI61C9065: 1508..2387	25-48	771-789	GSP								
27756	ENU11551	ANI61C1097 1:1328..959	25-45	339-369	GSP								
27757	ENU11552	ANI61C1019 8:2425..1513	25-49	729-759	GSP								
27758	ENU11553	ANI61C1185: 6136..6688	25-47	508-528	GSP								
27759	ENU11554	ANI61C5675: 3999..3514	25-44	445-468	GSP								
27760	ENU11555	ANI61C9863: 1235..528	25-45	514-543	GSP								
27761	ENU11556	ANI61C1104 1:887..2054	25-56	979-996	GSP								
27762	ENU11557	ANI61C8630: 613..273	25-42	371-390	GSP								
27763	ENU11558	ANI61C4158: 2716..3983	25-50	1005-1029	GSP								
27764	ENU11559	ANI61C8017: 1482..1164	25-45	278-300	GSP								
27765	ENU11560	ANI61C1066 1:361..53	25-53	269-291	GSP								
27766	ENU11561	ANI61C6804: 9977..10427	25-43	412-432	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr g	Description
27767	ENU11562	ANI61C3699: 1869..441	25-48	750-774	GSP								
27768	ENU11563	ANI61C3862: 617..1468	25-44	778-804	GSP								
27769	ENU11564	ANI61C5638: 3310..2406	25-48	774-798	GSP								
27770	ENU11565	ANI61C6174: 219..701	25-55	439-465	GSP								
27771	ENU11566	ANI61C1060 3:2742..1457	25-48	657-681	GSP								
27772	ENU11567	ANI61C7715: 504..163	25-52	297-324	GSP								
27773	ENU11568	ANI61C1129 4:31..565	25-48	467-489	GSP								
27774	ENU11569	ANI61C2468: 2924..3410	25-52	445-468	GSP								
27775	ENU11570	ANI61C1135: 3418..4128	25-49	362-390	GSP								
27776	ENU11571	ANI61C1010 7:1958..970	25-48	858-888	GSP								
27777	ENU11572	ANI61C8881: 3578..2998	25-44	482-507	GSP								
27778	ENU11573	ANI61C7430: 3283..2845	25-45	352-375	GSP								
27779	ENU11574	ANI61S3448: 395..218	25-48	422-447	GSP								
27780	ENU11575	ANI61C1044 4:1424..1025	25-43	357-384	GSP								
27781	ENU11576	ANI61C4788: 36..1751	25-52	1615-1644	GSP								
27782	ENU11577	ANI61C8293: 1673..986	25-42	274-294	GSP								
27783	ENU11578	ANI61C9179: 8464..8698	25-45	212-231	GSP								
27784	ENU11579	ANI61C7782: 8..383	25-48	360-381	GSP								
27785	ENU11580	ANI61C932:2 006..3728	25-51	1629-1662	GSP								

Gene Description

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27786	ENU11581	ANI61C5749: 1453..962	25-48	333-357	GSP								
27787	ENU11582	ANI61C1006 2:582..250	25-44	369-396	GSP								
27788	ENU11583	ANI61C8766: 107..2613	25-51	1412-1434	GSP								
27789	ENU11584	ANI61C5133: 2120..1014	25-51	1046-1065	GSP								
27790	ENU11585	ANI61C6550: 387..49	25-45	298-321	GSP								
27791	ENU11586	ANI61C5101: 1466..1044	25-47	377-405	GSP								
27792	ENU11587	ANI61C5399: 2833..3440	25-50	537-561	GSP								
27793	ENU11588	ANI61C6236: 498..136	25-52	314-345	GSP								
27794	ENU11589	ANI61C9357: 3491..2136	25-46	1158-1176	GSP								
27795	ENU11590	ANI61C2979: 488..177	25-48	270-294	GSP								
27796	ENU11591	ANI61C1030 2:6383..6825	25-54	398-426	GSP								
27797	ENU11592	ANI61C1209: 10967..12733	25-47	1045-1068	GSP								
27798	ENU11593	ANI61C8694: 2055..3109	25-48	748-771	GSP								
27799	ENU11594	ANI61S2333: 355..8	25-44	299-330	GSP								
27800	ENU11595	ANI61C9231: 292..1474	25-52	1013-1041	GSP								
27801	ENU11596	ANI61C1082 4:1361..5	25-55	1255-1284	GSP								
27802	ENU11597	ANI61C8728: 339..2251	25-52	1711-1734	GSP								
27803	ENU11598	ANI61C7107: 382..1841	25-52	1278-1299	GSP								
27804	ENU11599	ANI61C2617: 100..337	25-52	216-240	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27805	ENU11600	ANI61C9357: 5132..4710	25-47	382-405	GSP								
27806	ENU11601	ANI61C1017 6:196..787	25-47	454-477	GSP								
27807	ENU11602	ANI61C1093 1:738..214	25-47	473-507	GSP								
27808	ENU11603	ANI61C7422: 25-53	25-53	583-606	GSP								
27809	ENU11604	ANI61C6595: 25-46	25-46	432-456	GSP								
27810	ENU11605	ANI61C9031: 25-44	25-44	285-309	GSP								
27811	ENU11606	ANI61C8413: 25-43	25-43	664-687	GSP								
27812	ENU11607	ANI61C882:1 1182..426	25-55	574-600	GSP								
27813	ENU11608	ANI61C7049: 25-47	25-47	954-975	GSP								
27814	ENU11609	ANI61C8615: 25-49	25-49	409-432	GSP								
27815	ENU11610	ANI61C4383: 25-48	25-48	177-201	GSP								
27816	ENU11611	ANI61C3047: 25-47	25-47	669-687	GSP								
27817	ENU11612	ANI61C8629: 25-44	25-44	388-411	GSP								
27818	ENU11613	ANI61C6429: 25-46	25-46	334-357	GSP								
27819	ENU11614	ANI61S2494: 25-49	25-49	280-300	GSP								
27820	ENU11615	ANI61C1133 9:831..1678	25-49	631-657	GSP								
27821	ENU11616	ANI61C2236: 25-49	25-49	893-915	GSP								
27822	ENU11617	ANI61C4676: 25-49	25-49	189-222	GSP								
27823	ENU11618	ANI61C7181: 25-52	25-52	531-558	GSP								

Gene "GSH1A"

Seq num	Seq id	Primer 5 pos	Contig source	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27824	ENU11619	ANI61C551:1	25-49	333-366	GSP								
		38..521											
27825	ENU11620	ANI61C9884: 25-56		306-336	GSP								
		70..473											
27826	ENU11621	ANI61C7815: 25-53		440-468	GSP								
		1081..1620											
27827	ENU11622	ANI61C6422: 25-48		620-645	GSP								
		2527..3257											
27828	ENU11623	ANI61C810:6 25-51		338-366	GSP								
		99..283											
27829	ENU11624	ANI61C7484: 25-49		541-564	GSP								
		876..1532											
27830	ENU11625	ANI61C6594: 25-51		301-330	GSP								
		478..131											
27831	ENU11626	ANI61C672:4 25-48		1106-1128	GSP								
		367..3026											
27832	ENU11627	ANI61C1042 25-46		1895-1920	GSP								
		9:478..3694											
27833	ENU11628	ANI61C1029 25-45		628-651	GSP								
		6:3458..4310											
27834	ENU11629	ANI61C8774: 25-53		521-543	GSP								
		1707..2400											
27835	ENU11630	ANI61C8623: 25-49		266-291	GSP								
		3978..4287											
27836	ENU11631	ANI61C8329: 25-55		574-597	GSP								
		1537..932											
27837	ENU11632	ANI61C7077: 25-45		806-828	GSP								
		1277..2151											
27838	ENU11633	ANI61C8247: 25-49		240-273	GSP								
		3168..3727											
27839	ENU11634	ANI61C7270: 25-50		734-765	GSP								
		1029..1879											
27840	ENU11635	ANI61C9153: 25-49		483-507	GSP								
		3154..2634											
27841	ENU11636	ANI61C9778: 25-51		897-921	GSP								
		1769..313											
27842	ENU11637	ANI61C6947: 25-45		783-813	GSP								
		1973..1073											

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27843	ENU11638	ANI61C6579: 943..141	25-49	1106-1137	GSP								
27844	ENU11639	ANI61C8732: 3095..704	25-43	2174-2193	GSP								
27845	ENU11640	ANI61C723:1 160..2623	25-52	1038-1065	GSP								
27846	ENU11641	ANI61C3056: 2662..348	25-51	1262-1287	GSP								
27847	ENU11642	ANI61C4797: 3792..2825	25-48	802-834	GSP								
27848	ENU11643	ANI61C5384: 1988..286	25-47	1405-1428	GSP								
27849	ENU11644	ANI61C2961: 959..1987	25-47	781-804	GSP								
27850	ENU11645	ANI61C22:16 50..714	25-48	776-801	GSP								
27851	ENU11646	ANI61C7033: 1285..233	25-57	915-942	GSP								
27852	ENU11647	ANI61C7999: 3808..1181	25-52	1179-1206	GSP								
27853	ENU11648	ANI61C8740: 1318..68	25-48	1074-1098	GSP								
27854	ENU11649	ANI61C8379: 2450..1302	25-46	1064-1083	GSP								
27855	ENU11650	ANI61C3792: 649..2147	25-50	842-870	GSP								
27856	ENU11651	ANI61C8900: 1873..3008	25-49	755-783	GSP								
27857	ENU11652	ANI61C1060 4:2227..993	25-53	1076-1110	GSP								
27858	ENU11653	ANI61C900:2 5..2170	25-53	950-972	GSP								
27859	ENU11654	ANI61C1158: 7256..8420	25-44	887-912	GSP								
27860	ENU11655	ANI61C6523: 71..2129	25-56	1207-1233	GSP								
27861	ENU11656	ANI61C1107 3:2394..4134	25-48	1483-1506	GSP								

66666-065th66

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27862	ENU11657	ANI61C6977: 1669..735	25-52	849-876	GSP								
27863	ENU11658	ANI61C6432: 6014..1868	25-51	2266-2298	GSP								
27864	ENU11659	ANI61C6235: 1607..3436	25-42	1636-1662	GSP								
27865	ENU11660	ANI61C2443: 1157..1	25-50	774-801	GSP								
27866	ENU11661	ANI61C6248: 10252..9321	25-45	843-864	GSP								
27867	ENU11662	ANI61C1005: 5:3484..1762	25-45	1427-1458	GSP								
27868	ENU11663	ANI61C1046: 1:4279..2095	25-52	756-786	GSP								
27869	ENU11664	ANI61C6909: 1098..2118	25-56	1013-1038	GSP								
27870	ENU11665	ANI61C9006: 5050..6295	25-42	844-861	GSP								
27871	ENU11666	ANI61C5479: 1192..2303	25-49	973-996	GSP								
27872	ENU11667	ANI61C7941: 920..25	25-48	788-810	GSP								
27873	ENU11668	ANI61C7036: 846..1	25-52	1005-1032	GSP								
27874	ENU11669	ANI61C1160: 10913..12870	25-46	1460-1485	GSP								
27875	ENU11670	ANI61C1103: 8:2508..4082	25-49	864-888	GSP								
27876	ENU11671	ANI61C1103: 8:2508..4082	25-47	1035-1059	GSP								
27877	ENU11672	ANI61C6868: 3541..3697	25-49	776-810	GSP								
27878	ENU11673	ANI61C3839: 1495..74	25-47	1230-1248	GSP								
27879	ENU11674	ANI61C317:3 567..4711	25-48	874-897	GSP								
27880	ENU11675	ANI61C2635: 189..1817	25-48	1414-1434	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27881	ENU11676	ANI61C8587: 3568..833	25-46	1176-1200	GSP								
27882	ENU11677	ANI61C7113: 116..2566	25-50	1504-1533	GSP								
27883	ENU11678	ANI61C217:7 12..3714	25-47	1045-1068	GSP								
27884	ENU11679	ANI61C4188: 1815..3383	25-48	1065-1089	GSP								
27885	ENU11680	ANI61C5311: 2759..1507	25-48	925-948	GSP								
27886	ENU11681	ANI61C2779: 2334..1374	25-48	775-795	GSP								
27887	ENU11682	ANI61C4134: 4953..3776	25-42	969-996	GSP								
27888	ENU11683	ANI61C5248: 1625..2642	25-42	1025-1047	GSP								
27889	ENU11684	ANI61C1087: 2908..1902	25-48	858-891	GSP								
27890	ENU11685	ANI61C9702: 2743..385	25-51	1257-1281	GSP								
27891	ENU11686	ANI61C9303: 3713..1422	25-52	1421-1446	GSP								
27892	ENU11687	ANI61C1430: 5584..6726	25-53	872-894	GSP								
27893	ENU11688	ANI61C1047 7:4876..3341	25-50	1328-1356	GSP								
27894	ENU11689	ANI61C1109 9:5640..6853	25-44	886-909	GSP								
27895	ENU11690	ANI61C1143 2:415..1658	25-52	916-939	GSP								
27896	ENU11691	ANI61C9343: 1..526	25-49	1083-1113	GSP								
27897	ENU11692	ANI61C1120 1:5787..4364	25-50	1182-1209	GSP								
27898	ENU11693	ANI61C5332: 998..3326	25-45	1300-1323	GSP								
27899	ENU11694	ANI61C1025 1:5404..3484	25-46	825-849	GSP								

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvg	Description
27900	ENU11695	ANI61C9323: 630..3909	25-51	2135-2160	GSP								
27901	ENU11696	ANI61C4871: 25-55	25-55	808-837	GSP								
27902	ENU11697	ANI61C9878: 2313..3456	25-51	857-888	GSP								
27903	ENU11698	ANI61C8876: 1865..495	25-49	1119-1149	GSP								
27904	ENU11699	ANI61C6064: 1031..2327	25-42	919-942	GSP								
27905	ENU11700	ANI61C6256: 2164..4140	25-48	834-858	GSP								
27906	ENU11701	5207..4223	42-64	751-779	CDS	U51272							
27907	ENU11702		26-43	756-779	CDS	U75428							
27908	ENU11703		22-45	761-779	CDS	X84015							
27909	ENU11704		48-71	754-779	CDS	U34740							
27910	ENU11705		40-63	756-779	CDS	U12427							
27911	ENU11706		37-60	750-779	CDS	AB014886							
27912	ENU11707		37-60	755-779	CDS	AF019254							
27913	ENU11708		34-57	754-779	CDS	Z68905							
27914	ENU11709		31-54	752-779	CDS	M59705							
27915	ENU11710		31-54	756-779	CDS	Z68904							
27916	ENU11711		29-54	751-779	CDS	U34740							
27917	ENU11712		29-52	750-779	CDS	U03904							
27918	ENU11713		28-51	756-779	CDS	U83658							
27919	ENU11714		26-49	747-779	CDS	X82827							
27920	ENU11715		26-46	756-779	CDS	U75347							
27921	ENU11716		25-48	748-779	CDS	AF032987							
27922	ENU11717		25-48	749-779	CDS	U40146							
27923	ENU11718		24-47	756-779	CDS	AF016850							
27924	ENU11719		24-47	750-779	CDS	AJ003163							
27925	ENU11720		24-47	754-779	CDS	AF112473							
27926	ENU11721		24-51	756-779	CDS	U25693							
27927	ENU11722		23-47	754-779	CDS	X82289							
27928	ENU11723		23-46	755-779	CDS	U34740							
27929	ENU11724		23-51	752-779	CDS	D21268							
27930	ENU11725		22-44	751-779	CDS	U56100							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27931	ENU11726		22-50	752-779	CDS	U75347							
27932	ENU11727		22-48	750-779	CDS	D83246							
27933	ENU11728		22-45	744-779	CDS	U62895							
27934	ENU11729		22-51	758-779	CDS	AB000125							
27935	ENU11730		22-48	750-779	CDS	U52362							
27936	ENU11731		22-48	747-779	CDS	M58289							
27937	ENU11732		22-57	757-779	CDS	M83232							
27938	ENU11733		22-45	750-779	CDS	Y15996							
27939	ENU11734		25-42	712-729	CDS	D10019							
27940	ENU11735		25-53	712-738	CDS	X15441							
27941	ENU11736		25-48	845-867	CDS	U63728							
27942	ENU11737		25-48	1004-1026	CDS	Z80341							
27943	ENU11738		25-45	1021-1038	CDS	AF041976							
27944	ENU11739		25-49	1099-1116	CDS	U28804							
27945	ENU11740		25-44	1257-1275	CDS	L41670							
27946	ENU11741		25-44	1257-1275	CDS	AJ001836							
27947	ENU11742		25-48	1321-1344	CDS	X15479							
27948	ENU11743		25-50	1383-1404	CDS	U89675							
27949	ENU11744		25-43	1389-1413	CDS	Z49834							
27950	ENU11745		25-45	1404-1425	CDS	U59148							
27951	ENU11746		25-45	1606-1626	CDS	M16371							
27952	ENU11747		25-48	1643-1662	CDS	AF055287							
27953	ENU11748		25-44	1991-2016	CDS	U21220							
27954	ENU11749		25-46	2041-2064	CDS	AF027213							

Gene Descriptions

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
27955	ENU11750		25-46	2074-2097	CDS	U70731							
27956	ENU11751		25-46	2574-2601	CDS	M58291							
27957	ENU11752		25-46	300-321	CDS	M96993							
27958	ENU11753		25-45	365-390	CDS	U12632							
27959	ENU11754		25-45	377-402	CDS	X55547							
27960	ENU11755		25-46	404-429	CDS	J05545							
27961	ENU11756		25-50	418-441	CDS	X13525							
27962	ENU11757		25-50	418-441	CDS	X04696							
27963	ENU11758		25-48	443-462	CDS	U75874							
27964	ENU11759		25-49	497-525	CDS	D32070							
27965	ENU11760		25-45	573-600	CDS	Y08866							
27966	ENU11761		25-53	630-657	CDS	Z49892							
27967	ENU11762		25-51	646-672	CDS	AJ001837							
27968	ENU11763		25-47	742-762	CDS	U34740							
27969	ENU11764		25-44	758-777	CDS	U96847							
27970	ENU11765		25-48	778-804	CDS	M19132							
27971	ENU11766		25-45	945-969	CDS	X13525							
27972	ENU11767		25-44	1002-1029	CDS	M16196							
27973	ENU11768		25-44	1024-1046	CDS	Z49875							
27974	ENU11769		25-51	1031-1053	CDS	AF032988							
27975	ENU11770		25-48	1087-1107	CDS	M22869							
27976	ENU11771		25-46	1114-1135	CDS	AJ001157							
27977	ENU11772		25-44	1222-1242	CDS	AF098669							
27978	ENU11773		25-45	1258-1278	CDS	M20631							
27979	ENU11774		25-43	1270-1293	CDS	AF029318							
27980	ENU11775		25-43	1270-1293	CDS	U19394							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
27981	ENU11776		25-47	1270-1299	CDS	U28383							
27982	ENU11777		25-44	1291-1311	CDS	S79392							
27983	ENU11778		25-48	1299-1323	CDS	M17519							
27984	ENU11779		25-48	1305-1329	CDS	M17520							
27985	ENU11780		25-44	1403-1423	CDS	S79392							
27986	ENU11781		25-48	1451-1473	CDS	M16197							
27987	ENU11782		25-43	1466-1494	CDS	AF043230							
27988	ENU11783		25-52	1473-1500	CDS	U34740							
27989	ENU11784		25-45	1654-1680	CDS	U73194							
27990	ENU11785		25-57	1803-1827	CDS	X71807							
27991	ENU11786		25-49	2356-2376	CDS	Z83333							
27992	ENU11787		25-44	2367-2394	CDS	AF023156							
27993	ENU11788		25-47	2485-2508	CDS	Z54244							
27994	ENU11789		25-50	2842-2865	CDS	D87895							
27995	ENU11790		25-45	2894-2922	CDS	L36341							
27996	ENU11791		25-46	2931-2952	CDS	AF043332							
27997	ENU11792		25-46	2931-2952	CDS	AF036763							
27998	ENU11793		25-51	188-219	CDS	AF016187							
27999	ENU11794		25-48	215-246	CDS	AJ011295							
28000	ENU11795		25-51	232-264	CDS	U81827							

Gene Ontology

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28001	ENU11796		25-48	267-291	CDS	U12631							
28002	ENU11797		25-44	266-291	CDS	X55549							
28003	ENU11798		25-45	267-291	CDS	X55550							
28004	ENU11799		25-51	292-321	CDS	M83141							
28005	ENU11800		25-45	355-378	CDS	M18258							
28006	ENU11801		25-49	380-402	CDS	U12630							
28007	ENU11802		25-47	400-426	CDS	M65259							
28008	ENU11803		25-49	483-510	CDS	AF035768							
28009	ENU11804		25-48	496-528	CDS	AJ011296							
28010	ENU11805		25-48	522-546	CDS	M82941							
28011	ENU11806		25-47	603-627	CDS	U34740							
28012	ENU11807		25-47	603-627	CDS	L27825							
28013	ENU11808		25-49	635-663	CDS	U35731							
28014	ENU11809		25-47	743-771	CDS	U78083							
28015	ENU11810		25-50	761-786	CDS	U28333							
28016	ENU11811		25-47	759-792	CDS	M59935							
28017	ENU11812		25-49	776-804	CDS	U34740							
28018	ENU11813		25-51	809-840	CDS	U34740							
28019	ENU11814		25-48	840-873	CDS	U34740							
28020	ENU11815		25-52	870-891	CDS	AJ224085							
28021	ENU11816		25-51	883-915	CDS	U34740							
28022	ENU11817		25-49	918-942	CDS	U59215							
28023	ENU11818		25-49	925-951	CDS	U62482							
28024	ENU11819		25-47	926-951	CDS	M27067							
28025	ENU11820		25-48	930-960	CDS	U05592							
28026	ENU11821		25-44	943-972	CDS	X13525							
28027	ENU11822		25-50	945-975	CDS	A10846							
28028	ENU11823		25-46	962-990	CDS	M33539							
28029	ENU11824		25-46	1006-1029	CDS	Y13768							
28030	ENU11825		25-44	1014-1038	CDS	AF056182							
28031	ENU11826		25-53	1007-1041	CDS	U49917							
28032	ENU11827		25-55	1018-1044	CDS	AF083468							

GenBank Database

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvrg	Description
28033	ENU11828		25-53	1028-1053	CDS	X53310							
28034	ENU11829		25-48	1026-1059	CDS	M29819							
28035	ENU11830		25-46	1056-1080	CDS	U59215							
28036	ENU11831		25-49	1088-1113	CDS	Z11612							
28037	ENU11832		25-48	1095-1128	CDS	X98065							
28038	ENU11833		25-45	1112-1143	CDS	U34740							
28039	ENU11834		25-48	1144-1176	CDS	M77665							
28040	ENU11835		25-51	1149-1182	CDS	Y13700							
28041	ENU11836		25-48	1168-1191	CDS	L31778							
28042	ENU11837		25-48	1163-1197	CDS	U83489							
28043	ENU11838		25-54	1187-1218	CDS	AF043231							
28044	ENU11839		25-60	1208-1230	CDS	D87063							
28045	ENU11840		25-48	1204-1230	CDS	L03563							
28046	ENU11841		25-49	1212-1245	CDS	M27549							
28047	ENU11842		25-49	1280-1314	CDS	U22009							
28048	ENU11843		25-51	1294-1320	CDS	M83571							
28049	ENU11844		25-57	1303-1326	CDS	U30797							
28050	ENU11845		25-49	1336-1359	CDS	X16121							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28051	ENU11846		25-51	1387-1416	CDS	X64602							
28052	ENU11847		25-47	1443-1476	CDS	X15647							
28053	ENU11848		25-50	1455-1482	CDS	U34740							
28054	ENU11849		25-48	1476-1503	CDS	U34382							
28055	ENU11850		25-50	1489-1509	CDS	Y13759							
28056	ENU11851		25-57	1518-1542	CDS	U47318							
28057	ENU11852		25-45	1531-1560	CDS	M36918							
28058	ENU11853		25-45	1540-1566	CDS	X56671							
28059	ENU11854		25-45	1553-1581	CDS	X13525							
28060	ENU11855		25-60	1561-1590	CDS	X62696							
28061	ENU11856		25-47	1614-1647	CDS	M60528							
28062	ENU11857		25-53	1627-1656	CDS	AF013590							
28063	ENU11858		25-49	1679-1701	CDS	U95045							
28064	ENU11859		25-49	1676-1704	CDS	X82541							
28065	ENU11860		25-47	1733-1752	CDS	AJ000996							
28066	ENU11861		25-49	1729-1752	CDS	M83569							
28067	ENU11862		25-49	1781-1809	CDS	X52552							
28068	ENU11863		25-50	1927-1956	CDS	AF080599							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28069	ENU11864		25-51	2114-2145	CDS	L24395							
28070	ENU11865		25-48	2176-2199	CDS	U47540							
28071	ENU11866		25-50	2190-2214	CDS	U37803							
28072	ENU11867		25-50	2197-2226	CDS	AF043229							
28073	ENU11868		25-47	2254-2277	CDS	M31517							
28074	ENU11869		25-54	2261-2292	CDS	X64603							
28075	ENU11870		25-48	2283-2307	CDS	X99624							
28076	ENU11871		25-49	2278-2307	CDS	U56696							
28077	ENU11872		25-51	2343-2370	CDS	J04850							
28078	ENU11873		25-49	2358-2388	CDS	Y13568							
28079	ENU11874		25-52	2373-2400	CDS	X59269							
28080	ENU11875		25-45	2406-2436	CDS	AJ223459							
28081	ENU11876		25-48	2431-2457	CDS	X06252							
28082	ENU11877		25-44	2544-2574	CDS	M24071							
28083	ENU11878		25-51	2550-2577	CDS	L27817							
28084	ENU11879		25-49	2562-2583	CDS	U56097							
28085	ENU11880		25-52	2566-2595	CDS	U91968							
28086	ENU11881		25-46	2581-2610	CDS	X52491							

GenBank

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	cvr%	Description
28087	ENU11882		25-51	2593-2622	CDS	L28810							
28088	ENU11883		25-48	2626-2649	CDS	AF014813							
28089	ENU11884		25-47	2634-2658	CDS	M68900							
28090	ENU11885		25-44	2663-2685	CDS	M59935							
28091	ENU11886		25-44	2663-2685	CDS	M77664							
28092	ENU11887		25-45	2706-2727	CDS	D83216							
28093	ENU11888		25-45	2709-2730	CDS	D21269							
28094	ENU11889				CDS	L03200							
28095	ENU11890				CDS	X05204							
28096	ENU11891				CDS	X65866							
28097	ENU11892				CDS	M32075							
28098	ENU11893				CDS	U86620							
28099	ENU11894				CDS	U86619							
28100	ENU11895				CDS	M35967							
28101	ENU11896				CDS	X06960							
28102	ENU11897				CDS	J01390							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28103	ENU11898				CDS	X72210							
28104	ENU11899				CDS	Z49894							
28105	ENU11900				CDS	X15442							
28106	ENU11901				CDS	V00650							
28107	ENU11902				CDS	X06961							
28108	ENU11903				CDS	U74303							
28109	ENU11904				CDS	U34740							
28110	ENU11905				CDS	U62332							
28111	ENU11906				CDS	X00790							
28112	ENU11907				CDS	U07935							
28113	ENU11908				CDS	X55548							
28114	ENU11909				CDS	M30144							
28115	ENU11910				CDS	X54668							
28116	ENU11911				CDS	M61113							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28117	ENU11912				CDS	U35341							
28118	ENU11913				CDS	AF013602							
28119	ENU11914				CDS	M82940							
28120	ENU11915				CDS	X52565							
28121	ENU11916				CDS	U03025							
28122	ENU11917				CDS	Z49893							
28123	ENU11918				CDS	M77283							
28124	ENU11919				CDS	L27825							
28125	ENU11920				CDS	U34740							
28126	ENU11921				CDS	Z50175							
28127	ENU11922				CDS	U19882							
28128	ENU11923				CDS	U18265							
28129	ENU11924				CDS	U07169							
28130	ENU11925				CDS	X02764							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28131	ENU11926				CDS	M77665							
28132	ENU11927				CDS	AF069492							
28133	ENU11928				CDS	Z48000							
28134	ENU11929				CDS	U19395							
28135	ENU11930				CDS	L27825							
28136	ENU11931				CDS	AF090736							
28137	ENU11932				CDS	U71603							
28138	ENU11933				CDS	M74120							
28139	ENU11934				CDS	U34740							
28140	ENU11935				CDS	U34740							
28141	ENU11936				CDS	U59803							
28142	ENU11937				CDS	U70044							
28143	ENU11938				CDS	X84001							
28144	ENU11939				CDS	U34740							

Gene annotation

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28145	ENU11940				CDS	X77830							
28146	ENU11941				CDS	AF029885							
28147	ENU11942				CDS	U13919							
28148	ENU11943				CDS	X79797							
28149	ENU11944				CDS	X64601							
28150	ENU11945				CDS	X74327							
28151	ENU11946				CDS	X79796							
28152	ENU11947				CDS	AF085679							
28153	ENU11948				CDS	AJ007629							
28154	ENU11949				CDS	X98931							
28155	ENU11950				CDS	Z79750							
28156	ENU11951				CDS	AF014812							
28157	ENU11952				CDS	X64170							
28158	ENU11953				CDS	X16990							

Seq num	Seq id	Contig source	Primer 5 pos	Primer 3 pos	Selection Basis	Database Hit	ncbi gi	aat Score	Blast Score	Blast Prob	% id	% cvrg	Description
28159	ENU11954				CDS	AF070480							
28160	ENU11955				CDS	Z47081							
28161	ENU11956				CDS	AF080600							
28162	ENU11957				CDS	M20249							
28163	ENU11958				CDS	X86399							
28164	ENU11959				CDS	U80672							
28165	ENU11960				CDS	X02390							

Table 3

Seq num	Seq id
28166	ENU00001p5
28167	ENU00001p3
28168	ENU00002p5
28169	ENU00002p3
28170	ENU00003p5
28171	ENU00003p3
28172	ENU00004p5
28173	ENU00004p3
28174	ENU00005p5
28175	ENU00005p3
28176	ENU00006p5
28177	ENU00006p3
28178	ENU00007p5
28179	ENU00007p3
28180	ENU00008p5
28181	ENU00008p3
28182	ENU00009p5
28183	ENU00009p3
28184	ENU00010p5
28185	ENU00010p3
28186	ENU00011p5
28187	ENU00011p3
28188	ENU00012p5
28189	ENU00012p3
28190	ENU00013p5
28191	ENU00013p3
28192	ENU00014p5
28193	ENU00014p3
28194	ENU00015p5
28195	ENU00015p3
28196	ENU00016p5
28197	ENU00016p3
28198	ENU00017p5
28199	ENU00017p3
28200	ENU00018p5
28201	ENU00018p3
28202	ENU00019p5
28203	ENU00019p3
28204	ENU00020p5
28205	ENU00020p3
28206	ENU00021p5
28207	ENU00021p3
28208	ENU00022p5
28209	ENU00022p3
28210	ENU00023p5
28211	ENU00023p3
28212	ENU00024p5
28213	ENU00024p3
28214	ENU00025p5
28215	ENU00025p3
28216	ENU00026p5
28217	ENU00026p3
28218	ENU00027p5

28219	ENU00027p3
28220	ENU00028p5
28221	ENU00028p3
28222	ENU00029p5
28223	ENU00029p3
28224	ENU00030p5
28225	ENU00030p3
28226	ENU00031p5
28227	ENU00031p3
28228	ENU00032p5
28229	ENU00032p3
28230	ENU00033p5
28231	ENU00033p3
28232	ENU00034p5
28233	ENU00034p3
28234	ENU00035p5
28235	ENU00035p3
28236	ENU00036p5
28237	ENU00036p3
28238	ENU00037p5
28239	ENU00037p3
28240	ENU00038p5
28241	ENU00038p3
28242	ENU00039p5
28243	ENU00039p3
28244	ENU00040p5
28245	ENU00040p3
28246	ENU00041p5
28247	ENU00041p3
28248	ENU00042p5
28249	ENU00042p3
28250	ENU00043p5
28251	ENU00043p3
28252	ENU00044p5
28253	ENU00044p3
28254	ENU00045p5
28255	ENU00045p3
28256	ENU00046p5
28257	ENU00046p3
28258	ENU00047p5
28259	ENU00047p3
28260	ENU00048p5
28261	ENU00048p3
28262	ENU00049p5
28263	ENU00049p3
28264	ENU00050p5
28265	ENU00050p3
28266	ENU00051p5
28267	ENU00051p3
28268	ENU00052p5
28269	ENU00052p3
28270	ENU00053p5
28271	ENU00053p3
28272	ENU00054p5
28273	ENU00054p3
28274	ENU00055p5

28275	ENU00055p3
28276	ENU00056p5
28277	ENU00056p3
28278	ENU00057p5
28279	ENU00057p3
28280	ENU00058p5
28281	ENU00058p3
28282	ENU00059p5
28283	ENU00059p3
28284	ENU00060p5
28285	ENU00060p3
28286	ENU00061p5
28287	ENU00061p3
28288	ENU00062p5
28289	ENU00062p3
28290	ENU00063p5
28291	ENU00063p3
28292	ENU00064p5
28293	ENU00064p3
28294	ENU00065p5
28295	ENU00065p3
28296	ENU00066p5
28297	ENU00066p3
28298	ENU00067p5
28299	ENU00067p3
28300	ENU00068p5
28301	ENU00068p3
28302	ENU00069p5
28303	ENU00069p3
28304	ENU00070p5
28305	ENU00070p3
28306	ENU00071p5
28307	ENU00071p3
28308	ENU00072p5
28309	ENU00072p3
28310	ENU00073p5
28311	ENU00073p3
28312	ENU00074p5
28313	ENU00074p3
28314	ENU00075p5
28315	ENU00075p3
28316	ENU00076p5
28317	ENU00076p3
28318	ENU00077p5
28319	ENU00077p3
28320	ENU00078p5
28321	ENU00078p3
28322	ENU00079p5
28323	ENU00079p3
28324	ENU00080p5
28325	ENU00080p3
28326	ENU00081p5
28327	ENU00081p3
28328	ENU00082p5
28329	ENU00082p3
28330	ENU00083p5

28331	ENU00083p3
28332	ENU00084p5
28333	ENU00084p3
28334	ENU00085p5
28335	ENU00085p3
28336	ENU00086p5
28337	ENU00086p3
28338	ENU00087p5
28339	ENU00087p3
28340	ENU00088p5
28341	ENU00088p3
28342	ENU00089p5
28343	ENU00089p3
28344	ENU00090p5
28345	ENU00090p3
28346	ENU00091p5
28347	ENU00091p3
28348	ENU00092p5
28349	ENU00092p3
28350	ENU00093p5
28351	ENU00093p3
28352	ENU00094p5
28353	ENU00094p3
28354	ENU00095p5
28355	ENU00095p3
28356	ENU00096p5
28357	ENU00096p3
28358	ENU00097p5
28359	ENU00097p3
28360	ENU00098p5
28361	ENU00098p3
28362	ENU00099p5
28363	ENU00099p3
28364	ENU00100p5
28365	ENU00100p3
28366	ENU00101p5
28367	ENU00101p3
28368	ENU00102p5
28369	ENU00102p3
28370	ENU00103p5
28371	ENU00103p3
28372	ENU00104p5
28373	ENU00104p3
28374	ENU00105p5
28375	ENU00105p3
28376	ENU00106p5
28377	ENU00106p3
28378	ENU00107p5
28379	ENU00107p3
28380	ENU00108p5
28381	ENU00108p3
28382	ENU00109p5
28383	ENU00109p3
28384	ENU00110p5
28385	ENU00110p3
28386	ENU00111p5

28387	ENU00111p3
28388	ENU00112p5
28389	ENU00112p3
28390	ENU00113p5
28391	ENU00113p3
28392	ENU00114p5
28393	ENU00114p3
28394	ENU00115p5
28395	ENU00115p3
28396	ENU00116p5
28397	ENU00116p3
28398	ENU00117p5
28399	ENU00117p3
28400	ENU00118p5
28401	ENU00118p3
28402	ENU00119p5
28403	ENU00119p3
28404	ENU00120p5
28405	ENU00120p3
28406	ENU00121p5
28407	ENU00121p3
28408	ENU00122p5
28409	ENU00122p3
28410	ENU00123p5
28411	ENU00123p3
28412	ENU00124p5
28413	ENU00124p3
28414	ENU00125p5
28415	ENU00125p3
28416	ENU00126p5
28417	ENU00126p3
28418	ENU00127p5
28419	ENU00127p3
28420	ENU00128p5
28421	ENU00128p3
28422	ENU00129p5
28423	ENU00129p3
28424	ENU00130p5
28425	ENU00130p3
28426	ENU00131p5
28427	ENU00131p3
28428	ENU00132p5
28429	ENU00132p3
28430	ENU00133p5
28431	ENU00133p3
28432	ENU00134p5
28433	ENU00134p3
28434	ENU00135p5
28435	ENU00135p3
28436	ENU00136p5
28437	ENU00136p3
28438	ENU00137p5
28439	ENU00137p3
28440	ENU00138p5
28441	ENU00138p3
28442	ENU00139p5

28443	ENU00139p3
28444	ENU00140p5
28445	ENU00140p3
28446	ENU00141p5
28447	ENU00141p3
28448	ENU00142p5
28449	ENU00142p3
28450	ENU00143p5
28451	ENU00143p3
28452	ENU00144p5
28453	ENU00144p3
28454	ENU00145p5
28455	ENU00145p3
28456	ENU00146p5
28457	ENU00146p3
28458	ENU00147p5
28459	ENU00147p3
28460	ENU00148p5
28461	ENU00148p3
28462	ENU00149p5
28463	ENU00149p3
28464	ENU00150p5
28465	ENU00150p3
28466	ENU00151p5
28467	ENU00151p3
28468	ENU00152p5
28469	ENU00152p3
28470	ENU00153p5
28471	ENU00153p3
28472	ENU00154p5
28473	ENU00154p3
28474	ENU00155p5
28475	ENU00155p3
28476	ENU00156p5
28477	ENU00156p3
28478	ENU00157p5
28479	ENU00157p3
28480	ENU00158p5
28481	ENU00158p3
28482	ENU00159p5
28483	ENU00159p3
28484	ENU00160p5
28485	ENU00160p3
28486	ENU00161p5
28487	ENU00161p3
28488	ENU00162p5
28489	ENU00162p3
28490	ENU00163p5
28491	ENU00163p3
28492	ENU00164p5
28493	ENU00164p3
28494	ENU00165p5
28495	ENU00165p3
28496	ENU00166p5
28497	ENU00166p3
28498	ENU00167p5

28499	ENU00167p3
28500	ENU00168p5
28501	ENU00168p3
28502	ENU00169p5
28503	ENU00169p3
28504	ENU00170p5
28505	ENU00170p3
28506	ENU00171p5
28507	ENU00171p3
28508	ENU00172p5
28509	ENU00172p3
28510	ENU00173p5
28511	ENU00173p3
28512	ENU00174p5
28513	ENU00174p3
28514	ENU00175p5
28515	ENU00175p3
28516	ENU00176p5
28517	ENU00176p3
28518	ENU00177p5
28519	ENU00177p3
28520	ENU00178p5
28521	ENU00178p3
28522	ENU00179p5
28523	ENU00179p3
28524	ENU00180p5
28525	ENU00180p3
28526	ENU00181p5
28527	ENU00181p3
28528	ENU00182p5
28529	ENU00182p3
28530	ENU00183p5
28531	ENU00183p3
28532	ENU00184p5
28533	ENU00184p3
28534	ENU00185p5
28535	ENU00185p3
28536	ENU00186p5
28537	ENU00186p3
28538	ENU00187p5
28539	ENU00187p3
28540	ENU00188p5
28541	ENU00188p3
28542	ENU00189p5
28543	ENU00189p3
28544	ENU00190p5
28545	ENU00190p3
28546	ENU00191p5
28547	ENU00191p3
28548	ENU00192p5
28549	ENU00192p3
28550	ENU00193p5
28551	ENU00193p3
28552	ENU00194p5
28553	ENU00194p3
28554	ENU00195p5

28555	ENU00195p3
28556	ENU00196p5
28557	ENU00196p3
28558	ENU00197p5
28559	ENU00197p3
28560	ENU00198p5
28561	ENU00198p3
28562	ENU00199p5
28563	ENU00199p3
28564	ENU00200p5
28565	ENU00200p3
28566	ENU00201p5
28567	ENU00201p3
28568	ENU00202p5
28569	ENU00202p3
28570	ENU00203p5
28571	ENU00203p3
28572	ENU00204p5
28573	ENU00204p3
28574	ENU00205p5
28575	ENU00205p3
28576	ENU00206p5
28577	ENU00206p3
28578	ENU00207p5
28579	ENU00207p3
28580	ENU00208p5
28581	ENU00208p3
28582	ENU00209p5
28583	ENU00209p3
28584	ENU00210p5
28585	ENU00210p3
28586	ENU00211p5
28587	ENU00211p3
28588	ENU00212p5
28589	ENU00212p3
28590	ENU00213p5
28591	ENU00213p3
28592	ENU00214p5
28593	ENU00214p3
28594	ENU00215p5
28595	ENU00215p3
28596	ENU00216p5
28597	ENU00216p3
28598	ENU00217p5
28599	ENU00217p3
28600	ENU00218p5
28601	ENU00218p3
28602	ENU00219p5
28603	ENU00219p3
28604	ENU00220p5
28605	ENU00220p3
28606	ENU00221p5
28607	ENU00221p3
28608	ENU00222p5
28609	ENU00222p3
28610	ENU00223p5

28611	ENU00223p3
28612	ENU00224p5
28613	ENU00224p3
28614	ENU00225p5
28615	ENU00225p3
28616	ENU00226p5
28617	ENU00226p3
28618	ENU00227p5
28619	ENU00227p3
28620	ENU00228p5
28621	ENU00228p3
28622	ENU00229p5
28623	ENU00229p3
28624	ENU00230p5
28625	ENU00230p3
28626	ENU00231p5
28627	ENU00231p3
28628	ENU00232p5
28629	ENU00232p3
28630	ENU00233p5
28631	ENU00233p3
28632	ENU00234p5
28633	ENU00234p3
28634	ENU00235p5
28635	ENU00235p3
28636	ENU00236p5
28637	ENU00236p3
28638	ENU00237p5
28639	ENU00237p3
28640	ENU00238p5
28641	ENU00238p3
28642	ENU00239p5
28643	ENU00239p3
28644	ENU00240p5
28645	ENU00240p3
28646	ENU00241p5
28647	ENU00241p3
28648	ENU00242p5
28649	ENU00242p3
28650	ENU00243p5
28651	ENU00243p3
28652	ENU00244p5
28653	ENU00244p3
28654	ENU00245p5
28655	ENU00245p3
28656	ENU00246p5
28657	ENU00246p3
28658	ENU00247p5
28659	ENU00247p3
28660	ENU00248p5
28661	ENU00248p3
28662	ENU00249p5
28663	ENU00249p3
28664	ENU00250p5
28665	ENU00250p3
28666	ENU00251p5

28667	ENU00251p3
28668	ENU00252p5
28669	ENU00252p3
28670	ENU00253p5
28671	ENU00253p3
28672	ENU00254p5
28673	ENU00254p3
28674	ENU00255p5
28675	ENU00255p3
28676	ENU00256p5
28677	ENU00256p3
28678	ENU00257p5
28679	ENU00257p3
28680	ENU00258p5
28681	ENU00258p3
28682	ENU00259p5
28683	ENU00259p3
28684	ENU00260p5
28685	ENU00260p3
28686	ENU00261p5
28687	ENU00261p3
28688	ENU00262p5
28689	ENU00262p3
28690	ENU00263p5
28691	ENU00263p3
28692	ENU00264p5
28693	ENU00264p3
28694	ENU00265p5
28695	ENU00265p3
28696	ENU00266p5
28697	ENU00266p3
28698	ENU00267p5
28699	ENU00267p3
28700	ENU00268p5
28701	ENU00268p3
28702	ENU00269p5
28703	ENU00269p3
28704	ENU00270p5
28705	ENU00270p3
28706	ENU00271p5
28707	ENU00271p3
28708	ENU00272p5
28709	ENU00272p3
28710	ENU00273p5
28711	ENU00273p3
28712	ENU00274p5
28713	ENU00274p3
28714	ENU00275p5
28715	ENU00275p3
28716	ENU00276p5
28717	ENU00276p3
28718	ENU00277p5
28719	ENU00277p3
28720	ENU00278p5
28721	ENU00278p3
28722	ENU00279p5

28723	ENU00279p3
28724	ENU00280p5
28725	ENU00280p3
28726	ENU00281p5
28727	ENU00281p3
28728	ENU00282p5
28729	ENU00282p3
28730	ENU00283p5
28731	ENU00283p3
28732	ENU00284p5
28733	ENU00284p3
28734	ENU00285p5
28735	ENU00285p3
28736	ENU00286p5
28737	ENU00286p3
28738	ENU00287p5
28739	ENU00287p3
28740	ENU00288p5
28741	ENU00288p3
28742	ENU00289p5
28743	ENU00289p3
28744	ENU00290p5
28745	ENU00290p3
28746	ENU00291p5
28747	ENU00291p3
28748	ENU00292p5
28749	ENU00292p3
28750	ENU00293p5
28751	ENU00293p3
28752	ENU00294p5
28753	ENU00294p3
28754	ENU00295p5
28755	ENU00295p3
28756	ENU00296p5
28757	ENU00296p3
28758	ENU00297p5
28759	ENU00297p3
28760	ENU00298p5
28761	ENU00298p3
28762	ENU00299p5
28763	ENU00299p3
28764	ENU00300p5
28765	ENU00300p3
28766	ENU00301p5
28767	ENU00301p3
28768	ENU00302p5
28769	ENU00302p3
28770	ENU00303p5
28771	ENU00303p3
28772	ENU00304p5
28773	ENU00304p3
28774	ENU00305p5
28775	ENU00305p3
28776	ENU00306p5
28777	ENU00306p3
28778	ENU00307p5

28779	ENU00307p3
28780	ENU00308p5
28781	ENU00308p3
28782	ENU00309p5
28783	ENU00309p3
28784	ENU00310p5
28785	ENU00310p3
28786	ENU00311p5
28787	ENU00311p3
28788	ENU00312p5
28789	ENU00312p3
28790	ENU00313p5
28791	ENU00313p3
28792	ENU00314p5
28793	ENU00314p3
28794	ENU00315p5
28795	ENU00315p3
28796	ENU00316p5
28797	ENU00316p3
28798	ENU00317p5
28799	ENU00317p3
28800	ENU00318p5
28801	ENU00318p3
28802	ENU00319p5
28803	ENU00319p3
28804	ENU00320p5
28805	ENU00320p3
28806	ENU00321p5
28807	ENU00321p3
28808	ENU00322p5
28809	ENU00322p3
28810	ENU00323p5
28811	ENU00323p3
28812	ENU00324p5
28813	ENU00324p3
28814	ENU00325p5
28815	ENU00325p3
28816	ENU00326p5
28817	ENU00326p3
28818	ENU00327p5
28819	ENU00327p3
28820	ENU00328p5
28821	ENU00328p3
28822	ENU00329p5
28823	ENU00329p3
28824	ENU00330p5
28825	ENU00330p3
28826	ENU00331p5
28827	ENU00331p3
28828	ENU00332p5
28829	ENU00332p3
28830	ENU00333p5
28831	ENU00333p3
28832	ENU00334p5
28833	ENU00334p3
28834	ENU00335p5

28835	ENU00335p3
28836	ENU00336p5
28837	ENU00336p3
28838	ENU00337p5
28839	ENU00337p3
28840	ENU00338p5
28841	ENU00338p3
28842	ENU00339p5
28843	ENU00339p3
28844	ENU00340p5
28845	ENU00340p3
28846	ENU00341p5
28847	ENU00341p3
28848	ENU00342p5
28849	ENU00342p3
28850	ENU00343p5
28851	ENU00343p3
28852	ENU00344p5
28853	ENU00344p3
28854	ENU00345p5
28855	ENU00345p3
28856	ENU00346p5
28857	ENU00346p3
28858	ENU00347p5
28859	ENU00347p3
28860	ENU00348p5
28861	ENU00348p3
28862	ENU00349p5
28863	ENU00349p3
28864	ENU00350p5
28865	ENU00350p3
28866	ENU00351p5
28867	ENU00351p3
28868	ENU00352p5
28869	ENU00352p3
28870	ENU00353p5
28871	ENU00353p3
28872	ENU00354p5
28873	ENU00354p3
28874	ENU00355p5
28875	ENU00355p3
28876	ENU00356p5
28877	ENU00356p3
28878	ENU00357p5
28879	ENU00357p3
28880	ENU00358p5
28881	ENU00358p3
28882	ENU00359p5
28883	ENU00359p3
28884	ENU00360p5
28885	ENU00360p3
28886	ENU00361p5
28887	ENU00361p3
28888	ENU00362p5
28889	ENU00362p3
28890	ENU00363p5

28891	ENU00363p3
28892	ENU00364p5
28893	ENU00364p3
28894	ENU00365p5
28895	ENU00365p3
28896	ENU00366p5
28897	ENU00366p3
28898	ENU00367p5
28899	ENU00367p3
28900	ENU00368p5
28901	ENU00368p3
28902	ENU00369p5
28903	ENU00369p3
28904	ENU00370p5
28905	ENU00370p3
28906	ENU00371p5
28907	ENU00371p3
28908	ENU00372p5
28909	ENU00372p3
28910	ENU00373p5
28911	ENU00373p3
28912	ENU00374p5
28913	ENU00374p3
28914	ENU00375p5
28915	ENU00375p3
28916	ENU00376p5
28917	ENU00376p3
28918	ENU00377p5
28919	ENU00377p3
28920	ENU00378p5
28921	ENU00378p3
28922	ENU00379p5
28923	ENU00379p3
28924	ENU00380p5
28925	ENU00380p3
28926	ENU00381p5
28927	ENU00381p3
28928	ENU00382p5
28929	ENU00382p3
28930	ENU00383p5
28931	ENU00383p3
28932	ENU00384p5
28933	ENU00384p3
28934	ENU00385p5
28935	ENU00385p3
28936	ENU00386p5
28937	ENU00386p3
28938	ENU00387p5
28939	ENU00387p3
28940	ENU00388p5
28941	ENU00388p3
28942	ENU00389p5
28943	ENU00389p3
28944	ENU00390p5
28945	ENU00390p3
28946	ENU00391p5

28947	ENU00391p3
28948	ENU00392p5
28949	ENU00392p3
28950	ENU00393p5
28951	ENU00393p3
28952	ENU00394p5
28953	ENU00394p3
28954	ENU00395p5
28955	ENU00395p3
28956	ENU00396p5
28957	ENU00396p3
28958	ENU00397p5
28959	ENU00397p3
28960	ENU00398p5
28961	ENU00398p3
28962	ENU00399p5
28963	ENU00399p3
28964	ENU00400p5
28965	ENU00400p3
28966	ENU00401p5
28967	ENU00401p3
28968	ENU00402p5
28969	ENU00402p3
28970	ENU00403p5
28971	ENU00403p3
28972	ENU00404p5
28973	ENU00404p3
28974	ENU00405p5
28975	ENU00405p3
28976	ENU00406p5
28977	ENU00406p3
28978	ENU00407p5
28979	ENU00407p3
28980	ENU00408p5
28981	ENU00408p3
28982	ENU00409p5
28983	ENU00409p3
28984	ENU00410p5
28985	ENU00410p3
28986	ENU00411p5
28987	ENU00411p3
28988	ENU00412p5
28989	ENU00412p3
28990	ENU00413p5
28991	ENU00413p3
28992	ENU00414p5
28993	ENU00414p3
28994	ENU00415p5
28995	ENU00415p3
28996	ENU00416p5
28997	ENU00416p3
28998	ENU00417p5
28999	ENU00417p3
29000	ENU00418p5
29001	ENU00418p3
29002	ENU00419p5

29003	ENU00419p3
29004	ENU00420p5
29005	ENU00420p3
29006	ENU00421p5
29007	ENU00421p3
29008	ENU00422p5
29009	ENU00422p3
29010	ENU00423p5
29011	ENU00423p3
29012	ENU00424p5
29013	ENU00424p3
29014	ENU00425p5
29015	ENU00425p3
29016	ENU00426p5
29017	ENU00426p3
29018	ENU00427p5
29019	ENU00427p3
29020	ENU00428p5
29021	ENU00428p3
29022	ENU00429p5
29023	ENU00429p3
29024	ENU00430p5
29025	ENU00430p3
29026	ENU00431p5
29027	ENU00431p3
29028	ENU00432p5
29029	ENU00432p3
29030	ENU00433p5
29031	ENU00433p3
29032	ENU00434p5
29033	ENU00434p3
29034	ENU00435p5
29035	ENU00435p3
29036	ENU00436p5
29037	ENU00436p3
29038	ENU00437p5
29039	ENU00437p3
29040	ENU00438p5
29041	ENU00438p3
29042	ENU00439p5
29043	ENU00439p3
29044	ENU00440p5
29045	ENU00440p3
29046	ENU00441p5
29047	ENU00441p3
29048	ENU00442p5
29049	ENU00442p3
29050	ENU00443p5
29051	ENU00443p3
29052	ENU00444p5
29053	ENU00444p3
29054	ENU00445p5
29055	ENU00445p3
29056	ENU00446p5
29057	ENU00446p3
29058	ENU00447p5

29059	ENU00447p3
29060	ENU00448p5
29061	ENU00448p3
29062	ENU00449p5
29063	ENU00449p3
29064	ENU00450p5
29065	ENU00450p3
29066	ENU00451p5
29067	ENU00451p3
29068	ENU00452p5
29069	ENU00452p3
29070	ENU00453p5
29071	ENU00453p3
29072	ENU00454p5
29073	ENU00454p3
29074	ENU00455p5
29075	ENU00455p3
29076	ENU00456p5
29077	ENU00456p3
29078	ENU00457p5
29079	ENU00457p3
29080	ENU00458p5
29081	ENU00458p3
29082	ENU00459p5
29083	ENU00459p3
29084	ENU00460p5
29085	ENU00460p3
29086	ENU00461p5
29087	ENU00461p3
29088	ENU00462p5
29089	ENU00462p3
29090	ENU00463p5
29091	ENU00463p3
29092	ENU00464p5
29093	ENU00464p3
29094	ENU00465p5
29095	ENU00465p3
29096	ENU00466p5
29097	ENU00466p3
29098	ENU00467p5
29099	ENU00467p3
29100	ENU00468p5
29101	ENU00468p3
29102	ENU00469p5
29103	ENU00469p3
29104	ENU00470p5
29105	ENU00470p3
29106	ENU00471p5
29107	ENU00471p3
29108	ENU00472p5
29109	ENU00472p3
29110	ENU00473p5
29111	ENU00473p3
29112	ENU00474p5
29113	ENU00474p3
29114	ENU00475p5

29115	ENU00475p3
29116	ENU00476p5
29117	ENU00476p3
29118	ENU00477p5
29119	ENU00477p3
29120	ENU00478p5
29121	ENU00478p3
29122	ENU00479p5
29123	ENU00479p3
29124	ENU00480p5
29125	ENU00480p3
29126	ENU00481p5
29127	ENU00481p3
29128	ENU00482p5
29129	ENU00482p3
29130	ENU00483p5
29131	ENU00483p3
29132	ENU00484p5
29133	ENU00484p3
29134	ENU00485p5
29135	ENU00485p3
29136	ENU00486p5
29137	ENU00486p3
29138	ENU00487p5
29139	ENU00487p3
29140	ENU00488p5
29141	ENU00488p3
29142	ENU00489p5
29143	ENU00489p3
29144	ENU00490p5
29145	ENU00490p3
29146	ENU00491p5
29147	ENU00491p3
29148	ENU00492p5
29149	ENU00492p3
29150	ENU00493p5
29151	ENU00493p3
29152	ENU00494p5
29153	ENU00494p3
29154	ENU00495p5
29155	ENU00495p3
29156	ENU00496p5
29157	ENU00496p3
29158	ENU00497p5
29159	ENU00497p3
29160	ENU00498p5
29161	ENU00498p3
29162	ENU00499p5
29163	ENU00499p3
29164	ENU00500p5
29165	ENU00500p3
29166	ENU00501p5
29167	ENU00501p3
29168	ENU00502p5
29169	ENU00502p3
29170	ENU00503p5

29171	ENU00503p3
29172	ENU00504p5
29173	ENU00504p3
29174	ENU00505p5
29175	ENU00505p3
29176	ENU00506p5
29177	ENU00506p3
29178	ENU00507p5
29179	ENU00507p3
29180	ENU00508p5
29181	ENU00508p3
29182	ENU00509p5
29183	ENU00509p3
29184	ENU00510p5
29185	ENU00510p3
29186	ENU00511p5
29187	ENU00511p3
29188	ENU00512p5
29189	ENU00512p3
29190	ENU00513p5
29191	ENU00513p3
29192	ENU00514p5
29193	ENU00514p3
29194	ENU00515p5
29195	ENU00515p3
29196	ENU00516p5
29197	ENU00516p3
29198	ENU00517p5
29199	ENU00517p3
29200	ENU00518p5
29201	ENU00518p3
29202	ENU00519p5
29203	ENU00519p3
29204	ENU00520p5
29205	ENU00520p3
29206	ENU00521p5
29207	ENU00521p3
29208	ENU00522p5
29209	ENU00522p3
29210	ENU00523p5
29211	ENU00523p3
29212	ENU00524p5
29213	ENU00524p3
29214	ENU00525p5
29215	ENU00525p3
29216	ENU00526p5
29217	ENU00526p3
29218	ENU00527p5
29219	ENU00527p3
29220	ENU00528p5
29221	ENU00528p3
29222	ENU00529p5
29223	ENU00529p3
29224	ENU00530p5
29225	ENU00530p3
29226	ENU00531p5

Figure 1. The effect of the concentration of the H_2O_2 solution on the amount of the H_2O_2 consumed in the reaction of the H_2O_2 solution with the H_2O_2 solution. The concentration of the H_2O_2 solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.0, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 12.0, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 12.9, 13.0, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 14.0, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.9, 15.0, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.0, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7, 16.8, 16.9, 17.0, 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7, 17.8, 17.9, 18.0, 18.1, 18.2, 18.3, 18.4, 18.5, 18.6, 18.7, 18.8, 18.9, 19.0, 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 20.0, 20.1, 20.2, 20.3, 20.4, 20.5, 20.6, 20.7, 20.8, 20.9, 21.0, 21.1, 21.2, 21.3, 21.4, 21.5, 21.6, 21.7, 21.8, 21.9, 22.0, 22.1, 22.2, 22.3, 22.4, 22.5, 22.6, 22.7, 22.8, 22.9, 23.0, 23.1, 23.2, 23.3, 23.4, 23.5, 23.6, 23.7, 23.8, 23.9, 24.0, 24.1, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 25.0, 25.1, 25.2, 25.3, 25.4, 25.5, 25.6, 25.7, 25.8, 25.9, 26.0, 26.1, 26.2, 26.3, 26.4, 26.5, 26.6, 26.7, 26.8, 26.9, 27.0, 27.1, 27.2, 27.3, 27.4, 27.5, 27.6, 27.7, 27.8, 27.9, 28.0, 28.1, 28.2, 28.3, 28.4, 28.5, 28.6, 28.7, 28.8, 28.9, 29.0, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9,

29227	ENU00531p3
29228	ENU00532p5
29229	ENU00532p3
29230	ENU00533p5
29231	ENU00533p3
29232	ENU00534p5
29233	ENU00534p3
29234	ENU00535p5
29235	ENU00535p3
29236	ENU00536p5
29237	ENU00536p3
29238	ENU00537p5
29239	ENU00537p3
29240	ENU00538p5
29241	ENU00538p3
29242	ENU00539p5
29243	ENU00539p3
29244	ENU00540p5
29245	ENU00540p3
29246	ENU00541p5
29247	ENU00541p3
29248	ENU00542p5
29249	ENU00542p3
29250	ENU00543p5
29251	ENU00543p3
29252	ENU00544p5
29253	ENU00544p3
29254	ENU00545p5
29255	ENU00545p3
29256	ENU00546p5
29257	ENU00546p3
29258	ENU00547p5
29259	ENU00547p3
29260	ENU00548p5
29261	ENU00548p3
29262	ENU00549p5
29263	ENU00549p3
29264	ENU00550p5
29265	ENU00550p3
29266	ENU00551p5
29267	ENU00551p3
29268	ENU00552p5
29269	ENU00552p3
29270	ENU00553p5
29271	ENU00553p3
29272	ENU00554p5
29273	ENU00554p3
29274	ENU00555p5
29275	ENU00555p3
29276	ENU00556p5
29277	ENU00556p3
29278	ENU00557p5
29279	ENU00557p3
29280	ENU00558p5
29281	ENU00558p3
29282	ENU00559p5

29283	ENU00559p3
29284	ENU00560p5
29285	ENU00560p3
29286	ENU00561p5
29287	ENU00561p3
29288	ENU00562p5
29289	ENU00562p3
29290	ENU00563p5
29291	ENU00563p3
29292	ENU00564p5
29293	ENU00564p3
29294	ENU00565p5
29295	ENU00565p3
29296	ENU00566p5
29297	ENU00566p3
29298	ENU00567p5
29299	ENU00567p3
29300	ENU00568p5
29301	ENU00568p3
29302	ENU00569p5
29303	ENU00569p3
29304	ENU00570p5
29305	ENU00570p3
29306	ENU00571p5
29307	ENU00571p3
29308	ENU00572p5
29309	ENU00572p3
29310	ENU00573p5
29311	ENU00573p3
29312	ENU00574p5
29313	ENU00574p3
29314	ENU00575p5
29315	ENU00575p3
29316	ENU00576p5
29317	ENU00576p3
29318	ENU00577p5
29319	ENU00577p3
29320	ENU00578p5
29321	ENU00578p3
29322	ENU00579p5
29323	ENU00579p3
29324	ENU00580p5
29325	ENU00580p3
29326	ENU00581p5
29327	ENU00581p3
29328	ENU00582p5
29329	ENU00582p3
29330	ENU00583p5
29331	ENU00583p3
29332	ENU00584p5
29333	ENU00584p3
29334	ENU00585p5
29335	ENU00585p3
29336	ENU00586p5
29337	ENU00586p3
29338	ENU00587p5

29339	ENU00587p3
29340	ENU00588p5
29341	ENU00588p3
29342	ENU00589p5
29343	ENU00589p3
29344	ENU00590p5
29345	ENU00590p3
29346	ENU00591p5
29347	ENU00591p3
29348	ENU00592p5
29349	ENU00592p3
29350	ENU00593p5
29351	ENU00593p3
29352	ENU00594p5
29353	ENU00594p3
29354	ENU00595p5
29355	ENU00595p3
29356	ENU00596p5
29357	ENU00596p3
29358	ENU00597p5
29359	ENU00597p3
29360	ENU00598p5
29361	ENU00598p3
29362	ENU00599p5
29363	ENU00599p3
29364	ENU00600p5
29365	ENU00600p3
29366	ENU00601p5
29367	ENU00601p3
29368	ENU00602p5
29369	ENU00602p3
29370	ENU00603p5
29371	ENU00603p3
29372	ENU00604p5
29373	ENU00604p3
29374	ENU00605p5
29375	ENU00605p3
29376	ENU00606p5
29377	ENU00606p3
29378	ENU00607p5
29379	ENU00607p3
29380	ENU00608p5
29381	ENU00608p3
29382	ENU00609p5
29383	ENU00609p3
29384	ENU00610p5
29385	ENU00610p3
29386	ENU00611p5
29387	ENU00611p3
29388	ENU00612p5
29389	ENU00612p3
29390	ENU00613p5
29391	ENU00613p3
29392	ENU00614p5
29393	ENU00614p3
29394	ENU00615p5

29395	ENU00615p3
29396	ENU00616p5
29397	ENU00616p3
29398	ENU00617p5
29399	ENU00617p3
29400	ENU00618p5
29401	ENU00618p3
29402	ENU00619p5
29403	ENU00619p3
29404	ENU00620p5
29405	ENU00620p3
29406	ENU00621p5
29407	ENU00621p3
29408	ENU00622p5
29409	ENU00622p3
29410	ENU00623p5
29411	ENU00623p3
29412	ENU00624p5
29413	ENU00624p3
29414	ENU00625p5
29415	ENU00625p3
29416	ENU00626p5
29417	ENU00626p3
29418	ENU00627p5
29419	ENU00627p3
29420	ENU00628p5
29421	ENU00628p3
29422	ENU00629p5
29423	ENU00629p3
29424	ENU00630p5
29425	ENU00630p3
29426	ENU00631p5
29427	ENU00631p3
29428	ENU00632p5
29429	ENU00632p3
29430	ENU00633p5
29431	ENU00633p3
29432	ENU00634p5
29433	ENU00634p3
29434	ENU00635p5
29435	ENU00635p3
29436	ENU00636p5
29437	ENU00636p3
29438	ENU00637p5
29439	ENU00637p3
29440	ENU00638p5
29441	ENU00638p3
29442	ENU00639p5
29443	ENU00639p3
29444	ENU00640p5
29445	ENU00640p3
29446	ENU00641p5
29447	ENU00641p3
29448	ENU00642p5
29449	ENU00642p3
29450	ENU00643p5

29451	ENU00643p3
29452	ENU00644p5
29453	ENU00644p3
29454	ENU00645p5
29455	ENU00645p3
29456	ENU00646p5
29457	ENU00646p3
29458	ENU00647p5
29459	ENU00647p3
29460	ENU00648p5
29461	ENU00648p3
29462	ENU00649p5
29463	ENU00649p3
29464	ENU00650p5
29465	ENU00650p3
29466	ENU00651p5
29467	ENU00651p3
29468	ENU00652p5
29469	ENU00652p3
29470	ENU00653p5
29471	ENU00653p3
29472	ENU00654p5
29473	ENU00654p3
29474	ENU00655p5
29475	ENU00655p3
29476	ENU00656p5
29477	ENU00656p3
29478	ENU00657p5
29479	ENU00657p3
29480	ENU00658p5
29481	ENU00658p3
29482	ENU00659p5
29483	ENU00659p3
29484	ENU00660p5
29485	ENU00660p3
29486	ENU00661p5
29487	ENU00661p3
29488	ENU00662p5
29489	ENU00662p3
29490	ENU00663p5
29491	ENU00663p3
29492	ENU00664p5
29493	ENU00664p3
29494	ENU00665p5
29495	ENU00665p3
29496	ENU00666p5
29497	ENU00666p3
29498	ENU00667p5
29499	ENU00667p3
29500	ENU00668p5
29501	ENU00668p3
29502	ENU00669p5
29503	ENU00669p3
29504	ENU00670p5
29505	ENU00670p3
29506	ENU00671p5

29507	ENU00671p3
29508	ENU00672p5
29509	ENU00672p3
29510	ENU00673p5
29511	ENU00673p3
29512	ENU00674p5
29513	ENU00674p3
29514	ENU00675p5
29515	ENU00675p3
29516	ENU00676p5
29517	ENU00676p3
29518	ENU00677p5
29519	ENU00677p3
29520	ENU00678p5
29521	ENU00678p3
29522	ENU00679p5
29523	ENU00679p3
29524	ENU00680p5
29525	ENU00680p3
29526	ENU00681p5
29527	ENU00681p3
29528	ENU00682p5
29529	ENU00682p3
29530	ENU00683p5
29531	ENU00683p3
29532	ENU00684p5
29533	ENU00684p3
29534	ENU00685p5
29535	ENU00685p3
29536	ENU00686p5
29537	ENU00686p3
29538	ENU00687p5
29539	ENU00687p3
29540	ENU00688p5
29541	ENU00688p3
29542	ENU00689p5
29543	ENU00689p3
29544	ENU00690p5
29545	ENU00690p3
29546	ENU00691p5
29547	ENU00691p3
29548	ENU00692p5
29549	ENU00692p3
29550	ENU00693p5
29551	ENU00693p3
29552	ENU00694p5
29553	ENU00694p3
29554	ENU00695p5
29555	ENU00695p3
29556	ENU00696p5
29557	ENU00696p3
29558	ENU00697p5
29559	ENU00697p3
29560	ENU00698p5
29561	ENU00698p3
29562	ENU00699p5

29563	ENU00699p3
29564	ENU00700p5
29565	ENU00700p3
29566	ENU00701p5
29567	ENU00701p3
29568	ENU00702p5
29569	ENU00702p3
29570	ENU00703p5
29571	ENU00703p3
29572	ENU00704p5
29573	ENU00704p3
29574	ENU00705p5
29575	ENU00705p3
29576	ENU00706p5
29577	ENU00706p3
29578	ENU00707p5
29579	ENU00707p3
29580	ENU00708p5
29581	ENU00708p3
29582	ENU00709p5
29583	ENU00709p3
29584	ENU00710p5
29585	ENU00710p3
29586	ENU00711p5
29587	ENU00711p3
29588	ENU00712p5
29589	ENU00712p3
29590	ENU00713p5
29591	ENU00713p3
29592	ENU00714p5
29593	ENU00714p3
29594	ENU00715p5
29595	ENU00715p3
29596	ENU00716p5
29597	ENU00716p3
29598	ENU00717p5
29599	ENU00717p3
29600	ENU00718p5
29601	ENU00718p3
29602	ENU00719p5
29603	ENU00719p3
29604	ENU00720p5
29605	ENU00720p3
29606	ENU00721p5
29607	ENU00721p3
29608	ENU00722p5
29609	ENU00722p3
29610	ENU00723p5
29611	ENU00723p3
29612	ENU00724p5
29613	ENU00724p3
29614	ENU00725p5
29615	ENU00725p3
29616	ENU00726p5
29617	ENU00726p3
29618	ENU00727p5

29619	ENU00727p3
29620	ENU00728p5
29621	ENU00728p3
29622	ENU00729p5
29623	ENU00729p3
29624	ENU00730p5
29625	ENU00730p3
29626	ENU00731p5
29627	ENU00731p3
29628	ENU00732p5
29629	ENU00732p3
29630	ENU00733p5
29631	ENU00733p3
29632	ENU00734p5
29633	ENU00734p3
29634	ENU00735p5
29635	ENU00735p3
29636	ENU00736p5
29637	ENU00736p3
29638	ENU00737p5
29639	ENU00737p3
29640	ENU00738p5
29641	ENU00738p3
29642	ENU00739p5
29643	ENU00739p3
29644	ENU00740p5
29645	ENU00740p3
29646	ENU00741p5
29647	ENU00741p3
29648	ENU00742p5
29649	ENU00742p3
29650	ENU00743p5
29651	ENU00743p3
29652	ENU00744p5
29653	ENU00744p3
29654	ENU00745p5
29655	ENU00745p3
29656	ENU00746p5
29657	ENU00746p3
29658	ENU00747p5
29659	ENU00747p3
29660	ENU00748p5
29661	ENU00748p3
29662	ENU00749p5
29663	ENU00749p3
29664	ENU00750p5
29665	ENU00750p3
29666	ENU00751p5
29667	ENU00751p3
29668	ENU00752p5
29669	ENU00752p3
29670	ENU00753p5
29671	ENU00753p3
29672	ENU00754p5
29673	ENU00754p3
29674	ENU00755p5

29675	ENU00755p3
29676	ENU00756p5
29677	ENU00756p3
29678	ENU00757p5
29679	ENU00757p3
29680	ENU00758p5
29681	ENU00758p3
29682	ENU00759p5
29683	ENU00759p3
29684	ENU00760p5
29685	ENU00760p3
29686	ENU00761p5
29687	ENU00761p3
29688	ENU00762p5
29689	ENU00762p3
29690	ENU00763p5
29691	ENU00763p3
29692	ENU00764p5
29693	ENU00764p3
29694	ENU00765p5
29695	ENU00765p3
29696	ENU00766p5
29697	ENU00766p3
29698	ENU00767p5
29699	ENU00767p3
29700	ENU00768p5
29701	ENU00768p3
29702	ENU00769p5
29703	ENU00769p3
29704	ENU00770p5
29705	ENU00770p3
29706	ENU00771p5
29707	ENU00771p3
29708	ENU00772p5
29709	ENU00772p3
29710	ENU00773p5
29711	ENU00773p3
29712	ENU00774p5
29713	ENU00774p3
29714	ENU00775p5
29715	ENU00775p3
29716	ENU00776p5
29717	ENU00776p3
29718	ENU00777p5
29719	ENU00777p3
29720	ENU00778p5
29721	ENU00778p3
29722	ENU00779p5
29723	ENU00779p3
29724	ENU00780p5
29725	ENU00780p3
29726	ENU00781p5
29727	ENU00781p3
29728	ENU00782p5
29729	ENU00782p3
29730	ENU00783p5

29731	ENU00783p3
29732	ENU00784p5
29733	ENU00784p3
29734	ENU00785p5
29735	ENU00785p3
29736	ENU00786p5
29737	ENU00786p3
29738	ENU00787p5
29739	ENU00787p3
29740	ENU00788p5
29741	ENU00788p3
29742	ENU00789p5
29743	ENU00789p3
29744	ENU00790p5
29745	ENU00790p3
29746	ENU00791p5
29747	ENU00791p3
29748	ENU00792p5
29749	ENU00792p3
29750	ENU00793p5
29751	ENU00793p3
29752	ENU00794p5
29753	ENU00794p3
29754	ENU00795p5
29755	ENU00795p3
29756	ENU00796p5
29757	ENU00796p3
29758	ENU00797p5
29759	ENU00797p3
29760	ENU00798p5
29761	ENU00798p3
29762	ENU00799p5
29763	ENU00799p3
29764	ENU00800p5
29765	ENU00800p3
29766	ENU00801p5
29767	ENU00801p3
29768	ENU00802p5
29769	ENU00802p3
29770	ENU00803p5
29771	ENU00803p3
29772	ENU00804p5
29773	ENU00804p3
29774	ENU00805p5
29775	ENU00805p3
29776	ENU00806p5
29777	ENU00806p3
29778	ENU00807p5
29779	ENU00807p3
29780	ENU00808p5
29781	ENU00808p3
29782	ENU00809p5
29783	ENU00809p3
29784	ENU00810p5
29785	ENU00810p3
29786	ENU00811p5

29787	ENU00811p3
29788	ENU00812p5
29789	ENU00812p3
29790	ENU00813p5
29791	ENU00813p3
29792	ENU00814p5
29793	ENU00814p3
29794	ENU00815p5
29795	ENU00815p3
29796	ENU00816p5
29797	ENU00816p3
29798	ENU00817p5
29799	ENU00817p3
29800	ENU00818p5
29801	ENU00818p3
29802	ENU00819p5
29803	ENU00819p3
29804	ENU00820p5
29805	ENU00820p3
29806	ENU00821p5
29807	ENU00821p3
29808	ENU00822p5
29809	ENU00822p3
29810	ENU00823p5
29811	ENU00823p3
29812	ENU00824p5
29813	ENU00824p3
29814	ENU00825p5
29815	ENU00825p3
29816	ENU00826p5
29817	ENU00826p3
29818	ENU00827p5
29819	ENU00827p3
29820	ENU00828p5
29821	ENU00828p3
29822	ENU00829p5
29823	ENU00829p3
29824	ENU00830p5
29825	ENU00830p3
29826	ENU00831p5
29827	ENU00831p3
29828	ENU00832p5
29829	ENU00832p3
29830	ENU00833p5
29831	ENU00833p3
29832	ENU00834p5
29833	ENU00834p3
29834	ENU00835p5
29835	ENU00835p3
29836	ENU00836p5
29837	ENU00836p3
29838	ENU00837p5
29839	ENU00837p3
29840	ENU00838p5
29841	ENU00838p3
29842	ENU00839p5

29843	ENU00839p3
29844	ENU00840p5
29845	ENU00840p3
29846	ENU00841p5
29847	ENU00841p3
29848	ENU00842p5
29849	ENU00842p3
29850	ENU00843p5
29851	ENU00843p3
29852	ENU00844p5
29853	ENU00844p3
29854	ENU00845p5
29855	ENU00845p3
29856	ENU00846p5
29857	ENU00846p3
29858	ENU00847p5
29859	ENU00847p3
29860	ENU00848p5
29861	ENU00848p3
29862	ENU00849p5
29863	ENU00849p3
29864	ENU00850p5
29865	ENU00850p3
29866	ENU00851p5
29867	ENU00851p3
29868	ENU00852p5
29869	ENU00852p3
29870	ENU00853p5
29871	ENU00853p3
29872	ENU00854p5
29873	ENU00854p3
29874	ENU00855p5
29875	ENU00855p3
29876	ENU00856p5
29877	ENU00856p3
29878	ENU00857p5
29879	ENU00857p3
29880	ENU00858p5
29881	ENU00858p3
29882	ENU00859p5
29883	ENU00859p3
29884	ENU00860p5
29885	ENU00860p3
29886	ENU00861p5
29887	ENU00861p3
29888	ENU00862p5
29889	ENU00862p3
29890	ENU00863p5
29891	ENU00863p3
29892	ENU00864p5
29893	ENU00864p3
29894	ENU00865p5
29895	ENU00865p3
29896	ENU00866p5
29897	ENU00866p3
29898	ENU00867p5

29899	ENU00867p3
29900	ENU00868p5
29901	ENU00868p3
29902	ENU00869p5
29903	ENU00869p3
29904	ENU00870p5
29905	ENU00870p3
29906	ENU00871p5
29907	ENU00871p3
29908	ENU00872p5
29909	ENU00872p3
29910	ENU00873p5
29911	ENU00873p3
29912	ENU00874p5
29913	ENU00874p3
29914	ENU00875p5
29915	ENU00875p3
29916	ENU00878p5
29917	ENU00878p3
29918	ENU00879p5
29919	ENU00879p3
29920	ENU00880p5
29921	ENU00880p3
29922	ENU00881p5
29923	ENU00881p3
29924	ENU00882p5
29925	ENU00882p3
29926	ENU00883p5
29927	ENU00883p3
29928	ENU00884p5
29929	ENU00884p3
29930	ENU00885p5
29931	ENU00885p3
29932	ENU00886p5
29933	ENU00886p3
29934	ENU00887p5
29935	ENU00887p3
29936	ENU00888p5
29937	ENU00888p3
29938	ENU00890p5
29939	ENU00890p3
29940	ENU00891p5
29941	ENU00891p3
29942	ENU00892p5
29943	ENU00892p3
29944	ENU00893p5
29945	ENU00893p3
29946	ENU00894p5
29947	ENU00894p3
29948	ENU00895p5
29949	ENU00895p3
29950	ENU00896p5
29951	ENU00896p3
29952	ENU00897p5
29953	ENU00897p3
29954	ENU00898p5

29955	ENU00898p3
29956	ENU00899p5
29957	ENU00899p3
29958	ENU00900p5
29959	ENU00900p3
29960	ENU00902p5
29961	ENU00902p3
29962	ENU00903p5
29963	ENU00903p3
29964	ENU00904p5
29965	ENU00904p3
29966	ENU00905p5
29967	ENU00905p3
29968	ENU00906p5
29969	ENU00906p3
29970	ENU00907p5
29971	ENU00907p3
29972	ENU00908p5
29973	ENU00908p3
29974	ENU00910p5
29975	ENU00910p3
29976	ENU00911p5
29977	ENU00911p3
29978	ENU00912p5
29979	ENU00912p3
29980	ENU00913p5
29981	ENU00913p3
29982	ENU00914p5
29983	ENU00914p3
29984	ENU00915p5
29985	ENU00915p3
29986	ENU00916p5
29987	ENU00916p3
29988	ENU00917p5
29989	ENU00917p3
29990	ENU00919p5
29991	ENU00919p3
29992	ENU00920p5
29993	ENU00920p3
29994	ENU00921p5
29995	ENU00921p3
29996	ENU00922p5
29997	ENU00922p3
29998	ENU00923p5
29999	ENU00923p3
30000	ENU00924p5
30001	ENU00924p3
30002	ENU00925p5
30003	ENU00925p3
30004	ENU00926p5
30005	ENU00926p3
30006	ENU00927p5
30007	ENU00927p3
30008	ENU00928p5
30009	ENU00928p3
30010	ENU00929p5

30011	ENU00929p3
30012	ENU00930p5
30013	ENU00930p3
30014	ENU00932p5
30015	ENU00932p3
30016	ENU00933p5
30017	ENU00933p3
30018	ENU00934p5
30019	ENU00934p3
30020	ENU00935p5
30021	ENU00935p3
30022	ENU00936p5
30023	ENU00936p3
30024	ENU00937p5
30025	ENU00937p3
30026	ENU00939p5
30027	ENU00939p3
30028	ENU00940p5
30029	ENU00940p3
30030	ENU00941p5
30031	ENU00941p3
30032	ENU00942p5
30033	ENU00942p3
30034	ENU00943p5
30035	ENU00943p3
30036	ENU00944p5
30037	ENU00944p3
30038	ENU00945p5
30039	ENU00945p3
30040	ENU00946p5
30041	ENU00946p3
30042	ENU00947p5
30043	ENU00947p3
30044	ENU00948p5
30045	ENU00948p3
30046	ENU00949p5
30047	ENU00949p3
30048	ENU00951p5
30049	ENU00951p3
30050	ENU00952p5
30051	ENU00952p3
30052	ENU00953p5
30053	ENU00953p3
30054	ENU00954p5
30055	ENU00954p3
30056	ENU00955p5
30057	ENU00955p3
30058	ENU00957p5
30059	ENU00957p3
30060	ENU00958p5
30061	ENU00958p3
30062	ENU00960p5
30063	ENU00960p3
30064	ENU00961p5
30065	ENU00961p3
30066	ENU00964p5

30067	ENU00964p3
30068	ENU00966p5
30069	ENU00966p3
30070	ENU00967p5
30071	ENU00967p3
30072	ENU00968p5
30073	ENU00968p3
30074	ENU00970p5
30075	ENU00970p3
30076	ENU00971p5
30077	ENU00971p3
30078	ENU00973p5
30079	ENU00973p3
30080	ENU00974p5
30081	ENU00974p3
30082	ENU00975p5
30083	ENU00975p3
30084	ENU00976p5
30085	ENU00976p3
30086	ENU00978p5
30087	ENU00978p3
30088	ENU00979p5
30089	ENU00979p3
30090	ENU00980p5
30091	ENU00980p3
30092	ENU00981p5
30093	ENU00981p3
30094	ENU00982p5
30095	ENU00982p3
30096	ENU00983p5
30097	ENU00983p3
30098	ENU00984p5
30099	ENU00984p3
30100	ENU00985p5
30101	ENU00985p3
30102	ENU00986p5
30103	ENU00986p3
30104	ENU00987p5
30105	ENU00987p3
30106	ENU00988p5
30107	ENU00988p3
30108	ENU00990p5
30109	ENU00990p3
30110	ENU00991p5
30111	ENU00991p3
30112	ENU00992p5
30113	ENU00992p3
30114	ENU00993p5
30115	ENU00993p3
30116	ENU00995p5
30117	ENU00995p3
30118	ENU00996p5
30119	ENU00996p3
30120	ENU00998p5
30121	ENU00998p3
30122	ENU00999p5

30123	ENU00999p3
30124	ENU01000p5
30125	ENU01000p3
30126	ENU01001p5
30127	ENU01001p3
30128	ENU01002p5
30129	ENU01002p3
30130	ENU01003p5
30131	ENU01003p3
30132	ENU01004p5
30133	ENU01004p3
30134	ENU01005p5
30135	ENU01005p3
30136	ENU01006p5
30137	ENU01006p3
30138	ENU01007p5
30139	ENU01007p3
30140	ENU01008p5
30141	ENU01008p3
30142	ENU01009p5
30143	ENU01009p3
30144	ENU01010p5
30145	ENU01010p3
30146	ENU01011p5
30147	ENU01011p3
30148	ENU01012p5
30149	ENU01012p3
30150	ENU01013p5
30151	ENU01013p3
30152	ENU01014p5
30153	ENU01014p3
30154	ENU01015p5
30155	ENU01015p3
30156	ENU01016p5
30157	ENU01016p3
30158	ENU01017p5
30159	ENU01017p3
30160	ENU01018p5
30161	ENU01018p3
30162	ENU01019p5
30163	ENU01019p3
30164	ENU01020p5
30165	ENU01020p3
30166	ENU01021p5
30167	ENU01021p3
30168	ENU01022p5
30169	ENU01022p3
30170	ENU01024p5
30171	ENU01024p3
30172	ENU01025p5
30173	ENU01025p3
30174	ENU01026p5
30175	ENU01026p3
30176	ENU01027p5
30177	ENU01027p3
30178	ENU01029p5

30179	ENU01029p3
30180	ENU01030p5
30181	ENU01030p3
30182	ENU01031p5
30183	ENU01031p3
30184	ENU01032p5
30185	ENU01032p3
30186	ENU01033p5
30187	ENU01033p3
30188	ENU01034p5
30189	ENU01034p3
30190	ENU01035p5
30191	ENU01035p3
30192	ENU01036p5
30193	ENU01036p3
30194	ENU01037p5
30195	ENU01037p3
30196	ENU01038p5
30197	ENU01038p3
30198	ENU01039p5
30199	ENU01039p3
30200	ENU01040p5
30201	ENU01040p3
30202	ENU01041p5
30203	ENU01041p3
30204	ENU01043p5
30205	ENU01043p3
30206	ENU01044p5
30207	ENU01044p3
30208	ENU01045p5
30209	ENU01045p3
30210	ENU01046p5
30211	ENU01046p3
30212	ENU01047p5
30213	ENU01047p3
30214	ENU01048p5
30215	ENU01048p3
30216	ENU01049p5
30217	ENU01049p3
30218	ENU01051p5
30219	ENU01051p3
30220	ENU01053p5
30221	ENU01053p3
30222	ENU01054p5
30223	ENU01054p3
30224	ENU01055p5
30225	ENU01055p3
30226	ENU01056p5
30227	ENU01056p3
30228	ENU01057p5
30229	ENU01057p3
30230	ENU01058p5
30231	ENU01058p3
30232	ENU01059p5
30233	ENU01059p3
30234	ENU01060p5

30235	ENU01060p3
30236	ENU01061p5
30237	ENU01061p3
30238	ENU01062p5
30239	ENU01062p3
30240	ENU01063p5
30241	ENU01063p3
30242	ENU01064p5
30243	ENU01064p3
30244	ENU01065p5
30245	ENU01065p3
30246	ENU01066p5
30247	ENU01066p3
30248	ENU01067p5
30249	ENU01067p3
30250	ENU01068p5
30251	ENU01068p3
30252	ENU01069p5
30253	ENU01069p3
30254	ENU01070p5
30255	ENU01070p3
30256	ENU01071p5
30257	ENU01071p3
30258	ENU01072p5
30259	ENU01072p3
30260	ENU01074p5
30261	ENU01074p3
30262	ENU01075p5
30263	ENU01075p3
30264	ENU01076p5
30265	ENU01076p3
30266	ENU01077p5
30267	ENU01077p3
30268	ENU01078p5
30269	ENU01078p3
30270	ENU01079p5
30271	ENU01079p3
30272	ENU01080p5
30273	ENU01080p3
30274	ENU01081p5
30275	ENU01081p3
30276	ENU01082p5
30277	ENU01082p3
30278	ENU01083p5
30279	ENU01083p3
30280	ENU01084p5
30281	ENU01084p3
30282	ENU01085p5
30283	ENU01085p3
30284	ENU01086p5
30285	ENU01086p3
30286	ENU01087p5
30287	ENU01087p3
30288	ENU01088p5
30289	ENU01088p3
30290	ENU01089p5

30291	ENU01089p3
30292	ENU01090p5
30293	ENU01090p3
30294	ENU01091p5
30295	ENU01091p3
30296	ENU01092p5
30297	ENU01092p3
30298	ENU01093p5
30299	ENU01093p3
30300	ENU01094p5
30301	ENU01094p3
30302	ENU01095p5
30303	ENU01095p3
30304	ENU01096p5
30305	ENU01096p3
30306	ENU01097p5
30307	ENU01097p3
30308	ENU01098p5
30309	ENU01098p3
30310	ENU01099p5
30311	ENU01099p3
30312	ENU01100p5
30313	ENU01100p3
30314	ENU01101p5
30315	ENU01101p3
30316	ENU01102p5
30317	ENU01102p3
30318	ENU01103p5
30319	ENU01103p3
30320	ENU01104p5
30321	ENU01104p3
30322	ENU01105p5
30323	ENU01105p3
30324	ENU01106p5
30325	ENU01106p3
30326	ENU01107p5
30327	ENU01107p3
30328	ENU01108p5
30329	ENU01108p3
30330	ENU01109p5
30331	ENU01109p3
30332	ENU01110p5
30333	ENU01110p3
30334	ENU01111p5
30335	ENU01111p3
30336	ENU01112p5
30337	ENU01112p3
30338	ENU01113p5
30339	ENU01113p3
30340	ENU01114p5
30341	ENU01114p3
30342	ENU01115p5
30343	ENU01115p3
30344	ENU01116p5
30345	ENU01116p3
30346	ENU01117p5

30347	ENU01117p3
30348	ENU01118p5
30349	ENU01118p3
30350	ENU01119p5
30351	ENU01119p3
30352	ENU01120p5
30353	ENU01120p3
30354	ENU01121p5
30355	ENU01121p3
30356	ENU01122p5
30357	ENU01122p3
30358	ENU01123p5
30359	ENU01123p3
30360	ENU01124p5
30361	ENU01124p3
30362	ENU01125p5
30363	ENU01125p3
30364	ENU01126p5
30365	ENU01126p3
30366	ENU01127p5
30367	ENU01127p3
30368	ENU01128p5
30369	ENU01128p3
30370	ENU01129p5
30371	ENU01129p3
30372	ENU01130p5
30373	ENU01130p3
30374	ENU01131p5
30375	ENU01131p3
30376	ENU01132p5
30377	ENU01132p3
30378	ENU01133p5
30379	ENU01133p3
30380	ENU01134p5
30381	ENU01134p3
30382	ENU01135p5
30383	ENU01135p3
30384	ENU01136p5
30385	ENU01136p3
30386	ENU01137p5
30387	ENU01137p3
30388	ENU01138p5
30389	ENU01138p3
30390	ENU01139p5
30391	ENU01139p3
30392	ENU01140p5
30393	ENU01140p3
30394	ENU01141p5
30395	ENU01141p3
30396	ENU01142p5
30397	ENU01142p3
30398	ENU01143p5
30399	ENU01143p3
30400	ENU01144p5
30401	ENU01144p3
30402	ENU01145p5

30403	ENU01145p3
30404	ENU01146p5
30405	ENU01146p3
30406	ENU01147p5
30407	ENU01147p3
30408	ENU01148p5
30409	ENU01148p3
30410	ENU01149p5
30411	ENU01149p3
30412	ENU01150p5
30413	ENU01150p3
30414	ENU01151p5
30415	ENU01151p3
30416	ENU01152p5
30417	ENU01152p3
30418	ENU01153p5
30419	ENU01153p3
30420	ENU01154p5
30421	ENU01154p3
30422	ENU01155p5
30423	ENU01155p3
30424	ENU01156p5
30425	ENU01156p3
30426	ENU01157p5
30427	ENU01157p3
30428	ENU01158p5
30429	ENU01158p3
30430	ENU01159p5
30431	ENU01159p3
30432	ENU01160p5
30433	ENU01160p3
30434	ENU01161p5
30435	ENU01161p3
30436	ENU01162p5
30437	ENU01162p3
30438	ENU01163p5
30439	ENU01163p3
30440	ENU01164p5
30441	ENU01164p3
30442	ENU01165p5
30443	ENU01165p3
30444	ENU01166p5
30445	ENU01166p3
30446	ENU01167p5
30447	ENU01167p3
30448	ENU01168p5
30449	ENU01168p3
30450	ENU01169p5
30451	ENU01169p3
30452	ENU01170p5
30453	ENU01170p3
30454	ENU01171p5
30455	ENU01171p3
30456	ENU01172p5
30457	ENU01172p3
30458	ENU01173p5

30459	ENU01173p3
30460	ENU01174p5
30461	ENU01174p3
30462	ENU01175p5
30463	ENU01175p3
30464	ENU01176p5
30465	ENU01176p3
30466	ENU01177p5
30467	ENU01177p3
30468	ENU01178p5
30469	ENU01178p3
30470	ENU01179p5
30471	ENU01179p3
30472	ENU01180p5
30473	ENU01180p3
30474	ENU01181p5
30475	ENU01181p3
30476	ENU01182p5
30477	ENU01182p3
30478	ENU01183p5
30479	ENU01183p3
30480	ENU01184p5
30481	ENU01184p3
30482	ENU01185p5
30483	ENU01185p3
30484	ENU01186p5
30485	ENU01186p3
30486	ENU01187p5
30487	ENU01187p3
30488	ENU01188p5
30489	ENU01188p3
30490	ENU01189p5
30491	ENU01189p3
30492	ENU01190p5
30493	ENU01190p3
30494	ENU01191p5
30495	ENU01191p3
30496	ENU01192p5
30497	ENU01192p3
30498	ENU01193p5
30499	ENU01193p3
30500	ENU01194p5
30501	ENU01194p3
30502	ENU01195p5
30503	ENU01195p3
30504	ENU01196p5
30505	ENU01196p3
30506	ENU01197p5
30507	ENU01197p3
30508	ENU01198p5
30509	ENU01198p3
30510	ENU01199p5
30511	ENU01199p3
30512	ENU01200p5
30513	ENU01200p3
30514	ENU01201p5

30515	ENU01201p3
30516	ENU01202p5
30517	ENU01202p3
30518	ENU01203p5
30519	ENU01203p3
30520	ENU01204p5
30521	ENU01204p3
30522	ENU01205p5
30523	ENU01205p3
30524	ENU01206p5
30525	ENU01206p3
30526	ENU01207p5
30527	ENU01207p3
30528	ENU01208p5
30529	ENU01208p3
30530	ENU01209p5
30531	ENU01209p3
30532	ENU01210p5
30533	ENU01210p3
30534	ENU01211p5
30535	ENU01211p3
30536	ENU01212p5
30537	ENU01212p3
30538	ENU01213p5
30539	ENU01213p3
30540	ENU01214p5
30541	ENU01214p3
30542	ENU01215p5
30543	ENU01215p3
30544	ENU01216p5
30545	ENU01216p3
30546	ENU01217p5
30547	ENU01217p3
30548	ENU01218p5
30549	ENU01218p3
30550	ENU01219p5
30551	ENU01219p3
30552	ENU01220p5
30553	ENU01220p3
30554	ENU01221p5
30555	ENU01221p3
30556	ENU01222p5
30557	ENU01222p3
30558	ENU01223p5
30559	ENU01223p3
30560	ENU01224p5
30561	ENU01224p3
30562	ENU01225p5
30563	ENU01225p3
30564	ENU01226p5
30565	ENU01226p3
30566	ENU01227p5
30567	ENU01227p3
30568	ENU01228p5
30569	ENU01228p3
30570	ENU01229p5

30571	ENU01229p3
30572	ENU01230p5
30573	ENU01230p3
30574	ENU01231p5
30575	ENU01231p3
30576	ENU01232p5
30577	ENU01232p3
30578	ENU01233p5
30579	ENU01233p3
30580	ENU01234p5
30581	ENU01234p3
30582	ENU01235p5
30583	ENU01235p3
30584	ENU01236p5
30585	ENU01236p3
30586	ENU01237p5
30587	ENU01237p3
30588	ENU01238p5
30589	ENU01238p3
30590	ENU01239p5
30591	ENU01239p3
30592	ENU01240p5
30593	ENU01240p3
30594	ENU01241p5
30595	ENU01241p3
30596	ENU01242p5
30597	ENU01242p3
30598	ENU01243p5
30599	ENU01243p3
30600	ENU01244p5
30601	ENU01244p3
30602	ENU01245p5
30603	ENU01245p3
30604	ENU01246p5
30605	ENU01246p3
30606	ENU01247p5
30607	ENU01247p3
30608	ENU01248p5
30609	ENU01248p3
30610	ENU01249p5
30611	ENU01249p3
30612	ENU01250p5
30613	ENU01250p3
30614	ENU01251p5
30615	ENU01251p3
30616	ENU01252p5
30617	ENU01252p3
30618	ENU01253p5
30619	ENU01253p3
30620	ENU01254p5
30621	ENU01254p3
30622	ENU01255p5
30623	ENU01255p3
30624	ENU01256p5
30625	ENU01256p3
30626	ENU01257p5

30627	ENU01257p3
30628	ENU01258p5
30629	ENU01258p3
30630	ENU01259p5
30631	ENU01259p3
30632	ENU01260p5
30633	ENU01260p3
30634	ENU01261p5
30635	ENU01261p3
30636	ENU01262p5
30637	ENU01262p3
30638	ENU01263p5
30639	ENU01263p3
30640	ENU01264p5
30641	ENU01264p3
30642	ENU01265p5
30643	ENU01265p3
30644	ENU01266p5
30645	ENU01266p3
30646	ENU01267p5
30647	ENU01267p3
30648	ENU01268p5
30649	ENU01268p3
30650	ENU01269p5
30651	ENU01269p3
30652	ENU01270p5
30653	ENU01270p3
30654	ENU01271p5
30655	ENU01271p3
30656	ENU01272p5
30657	ENU01272p3
30658	ENU01273p5
30659	ENU01273p3
30660	ENU01274p5
30661	ENU01274p3
30662	ENU01275p5
30663	ENU01275p3
30664	ENU01276p5
30665	ENU01276p3
30666	ENU01277p5
30667	ENU01277p3
30668	ENU01278p5
30669	ENU01278p3
30670	ENU01279p5
30671	ENU01279p3
30672	ENU01280p5
30673	ENU01280p3
30674	ENU01281p5
30675	ENU01281p3
30676	ENU01282p5
30677	ENU01282p3
30678	ENU01283p5
30679	ENU01283p3
30680	ENU01284p5
30681	ENU01284p3
30682	ENU01285p5

30739	ENU01314p3
30740	ENU01319p5
30741	ENU01319p3
30742	ENU01323p5
30743	ENU01323p3
30744	ENU01327p5
30745	ENU01327p3
30746	ENU01328p5
30747	ENU01328p3
30748	ENU01329p5
30749	ENU01329p3
30750	ENU01330p5
30751	ENU01330p3
30752	ENU01336p5
30753	ENU01336p3
30754	ENU01338p5
30755	ENU01338p3
30756	ENU01339p5
30757	ENU01339p3
30758	ENU01340p5
30759	ENU01340p3
30760	ENU01341p5
30761	ENU01341p3
30762	ENU01345p5
30763	ENU01345p3
30764	ENU01347p5
30765	ENU01347p3
30766	ENU01349p5
30767	ENU01349p3
30768	ENU01350p5
30769	ENU01350p3
30770	ENU01352p5
30771	ENU01352p3
30772	ENU01354p5
30773	ENU01354p3
30774	ENU01355p5
30775	ENU01355p3
30776	ENU01356p5
30777	ENU01356p3
30778	ENU01358p5
30779	ENU01358p3
30780	ENU01360p5
30781	ENU01360p3
30782	ENU01361p5
30783	ENU01361p3
30784	ENU01362p5
30785	ENU01362p3
30786	ENU01363p5
30787	ENU01363p3
30788	ENU01366p5
30789	ENU01366p3
30790	ENU01368p5
30791	ENU01368p3
30792	ENU01370p5
30793	ENU01370p3
30794	ENU01373p5

30795	ENU01373p3
30796	ENU01379p5
30797	ENU01379p3
30798	ENU01380p5
30799	ENU01380p3
30800	ENU01385p5
30801	ENU01385p3
30802	ENU01386p5
30803	ENU01386p3
30804	ENU01387p5
30805	ENU01387p3
30806	ENU01388p5
30807	ENU01388p3
30808	ENU01394p5
30809	ENU01394p3
30810	ENU01396p5
30811	ENU01396p3
30812	ENU01397p5
30813	ENU01397p3
30814	ENU01399p5
30815	ENU01399p3
30816	ENU01404p5
30817	ENU01404p3
30818	ENU01405p5
30819	ENU01405p3
30820	ENU01406p5
30821	ENU01406p3
30822	ENU01409p5
30823	ENU01409p3
30824	ENU01411p5
30825	ENU01411p3
30826	ENU01412p5
30827	ENU01412p3
30828	ENU01415p5
30829	ENU01415p3
30830	ENU01416p5
30831	ENU01416p3
30832	ENU01417p5
30833	ENU01417p3
30834	ENU01419p5
30835	ENU01419p3
30836	ENU01420p5
30837	ENU01420p3
30838	ENU01422p5
30839	ENU01422p3
30840	ENU01423p5
30841	ENU01423p3
30842	ENU01424p5
30843	ENU01424p3
30844	ENU01425p5
30845	ENU01425p3
30846	ENU01426p5
30847	ENU01426p3
30848	ENU01428p5
30849	ENU01428p3
30850	ENU01430p5

30851	ENU01430p3
30852	ENU01431p5
30853	ENU01431p3
30854	ENU01432p5
30855	ENU01432p3
30856	ENU01433p5
30857	ENU01433p3
30858	ENU01434p5
30859	ENU01434p3
30860	ENU01435p5
30861	ENU01435p3
30862	ENU01436p5
30863	ENU01436p3
30864	ENU01437p5
30865	ENU01437p3
30866	ENU01438p5
30867	ENU01438p3
30868	ENU01439p5
30869	ENU01439p3
30870	ENU01441p5
30871	ENU01441p3
30872	ENU01442p5
30873	ENU01442p3
30874	ENU01443p5
30875	ENU01443p3
30876	ENU01444p5
30877	ENU01444p3
30878	ENU01445p5
30879	ENU01445p3
30880	ENU01446p5
30881	ENU01446p3
30882	ENU01447p5
30883	ENU01447p3
30884	ENU01449p5
30885	ENU01449p3
30886	ENU01450p5
30887	ENU01450p3
30888	ENU01451p5
30889	ENU01451p3
30890	ENU01452p5
30891	ENU01452p3
30892	ENU01453p5
30893	ENU01453p3
30894	ENU01454p5
30895	ENU01454p3
30896	ENU01455p5
30897	ENU01455p3
30898	ENU01456p5
30899	ENU01456p3
30900	ENU01457p5
30901	ENU01457p3
30902	ENU01458p5
30903	ENU01458p3
30904	ENU01459p5
30905	ENU01459p3
30906	ENU01460p5

30907	ENU01460p3
30908	ENU01461p5
30909	ENU01461p3
30910	ENU01462p5
30911	ENU01462p3
30912	ENU01463p5
30913	ENU01463p3
30914	ENU01464p5
30915	ENU01464p3
30916	ENU01465p5
30917	ENU01465p3
30918	ENU01466p5
30919	ENU01466p3
30920	ENU01468p5
30921	ENU01468p3
30922	ENU01469p5
30923	ENU01469p3
30924	ENU01470p5
30925	ENU01470p3
30926	ENU01471p5
30927	ENU01471p3
30928	ENU01472p5
30929	ENU01472p3
30930	ENU01473p5
30931	ENU01473p3
30932	ENU01474p5
30933	ENU01474p3
30934	ENU01475p5
30935	ENU01475p3
30936	ENU01476p5
30937	ENU01476p3
30938	ENU01477p5
30939	ENU01477p3
30940	ENU01478p5
30941	ENU01478p3
30942	ENU01479p5
30943	ENU01479p3
30944	ENU01480p5
30945	ENU01480p3
30946	ENU01481p5
30947	ENU01481p3
30948	ENU01482p5
30949	ENU01482p3
30950	ENU01483p5
30951	ENU01483p3
30952	ENU01484p5
30953	ENU01484p3
30954	ENU01485p5
30955	ENU01485p3
30956	ENU01486p5
30957	ENU01486p3
30958	ENU01487p5
30959	ENU01487p3
30960	ENU01488p5
30961	ENU01488p3
30962	ENU01489p5

30963	ENU01489p3
30964	ENU01490p5
30965	ENU01490p3
30966	ENU01491p5
30967	ENU01491p3
30968	ENU01492p5
30969	ENU01492p3
30970	ENU01493p5
30971	ENU01493p3
30972	ENU01494p5
30973	ENU01494p3
30974	ENU01495p5
30975	ENU01495p3
30976	ENU01496p5
30977	ENU01496p3
30978	ENU01497p5
30979	ENU01497p3
30980	ENU01498p5
30981	ENU01498p3
30982	ENU01499p5
30983	ENU01499p3
30984	ENU01500p5
30985	ENU01500p3
30986	ENU01501p5
30987	ENU01501p3
30988	ENU01502p5
30989	ENU01502p3
30990	ENU01503p5
30991	ENU01503p3
30992	ENU01504p5
30993	ENU01504p3
30994	ENU01505p5
30995	ENU01505p3
30996	ENU01506p5
30997	ENU01506p3
30998	ENU01507p5
30999	ENU01507p3
31000	ENU01508p5
31001	ENU01508p3
31002	ENU01509p5
31003	ENU01509p3
31004	ENU01510p5
31005	ENU01510p3
31006	ENU01511p5
31007	ENU01511p3
31008	ENU01512p5
31009	ENU01512p3
31010	ENU01513p5
31011	ENU01513p3
31012	ENU01514p5
31013	ENU01514p3
31014	ENU01515p5
31015	ENU01515p3
31016	ENU01516p5
31017	ENU01516p3
31018	ENU01517p5

31019	ENU01517p3
31020	ENU01518p3
31021	ENU01518p3
31022	ENU01519p5
31023	ENU01519p3
31024	ENU01520p5
31025	ENU01520p3
31026	ENU01521p5
31027	ENU01521p3
31028	ENU01522p5
31029	ENU01522p3
31030	ENU01523p5
31031	ENU01523p3
31032	ENU01524p5
31033	ENU01524p3
31034	ENU01525p5
31035	ENU01525p3
31036	ENU01526p5
31037	ENU01526p3
31038	ENU01527p5
31039	ENU01527p3
31040	ENU01528p5
31041	ENU01528p3
31042	ENU01529p5
31043	ENU01529p3
31044	ENU01530p5
31045	ENU01530p3
31046	ENU01531p5
31047	ENU01531p3
31048	ENU01532p5
31049	ENU01532p3
31050	ENU01533p5
31051	ENU01533p3
31052	ENU01534p5
31053	ENU01534p3
31054	ENU01535p5
31055	ENU01535p3
31056	ENU01536p5
31057	ENU01536p3
31058	ENU01537p5
31059	ENU01537p3
31060	ENU01538p5
31061	ENU01538p3
31062	ENU01539p5
31063	ENU01539p3
31064	ENU01540p5
31065	ENU01540p3
31066	ENU01541p5
31067	ENU01541p3
31068	ENU01542p5
31069	ENU01542p3
31070	ENU01543p5
31071	ENU01543p3
31072	ENU01544p5
31073	ENU01544p3
31074	ENU01545p5

31075	ENU01545p3
31076	ENU01546p5
31077	ENU01546p3
31078	ENU01547p5
31079	ENU01547p3
31080	ENU01548p5
31081	ENU01548p3
31082	ENU01549p5
31083	ENU01549p3
31084	ENU01550p5
31085	ENU01550p3
31086	ENU01551p5
31087	ENU01551p3
31088	ENU01552p5
31089	ENU01552p3
31090	ENU01553p5
31091	ENU01553p3
31092	ENU01554p5
31093	ENU01554p3
31094	ENU01555p5
31095	ENU01555p3
31096	ENU01556p5
31097	ENU01556p3
31098	ENU01557p5
31099	ENU01557p3
31100	ENU01558p5
31101	ENU01558p3
31102	ENU01559p5
31103	ENU01559p3
31104	ENU01560p5
31105	ENU01560p3
31106	ENU01561p5
31107	ENU01561p3
31108	ENU01562p5
31109	ENU01562p3
31110	ENU01563p5
31111	ENU01563p3
31112	ENU01564p5
31113	ENU01564p3
31114	ENU01565p5
31115	ENU01565p3
31116	ENU01566p5
31117	ENU01566p3
31118	ENU01567p5
31119	ENU01567p3
31120	ENU01568p5
31121	ENU01568p3
31122	ENU01569p5
31123	ENU01569p3
31124	ENU01570p5
31125	ENU01570p3
31126	ENU01571p5
31127	ENU01571p3
31128	ENU01572p5
31129	ENU01572p3
31130	ENU01573p5

31131	ENU01573p3
31132	ENU01574p5
31133	ENU01574p3
31134	ENU01575p5
31135	ENU01575p3
31136	ENU01576p5
31137	ENU01576p3
31138	ENU01577p5
31139	ENU01577p3
31140	ENU01578p5
31141	ENU01578p3
31142	ENU01579p5
31143	ENU01579p3
31144	ENU01580p5
31145	ENU01580p3
31146	ENU01581p5
31147	ENU01581p3
31148	ENU01582p5
31149	ENU01582p3
31150	ENU01583p5
31151	ENU01583p3
31152	ENU01584p5
31153	ENU01584p3
31154	ENU01585p5
31155	ENU01585p3
31156	ENU01586p5
31157	ENU01586p3
31158	ENU01587p5
31159	ENU01587p3
31160	ENU01588p5
31161	ENU01588p3
31162	ENU01589p5
31163	ENU01589p3
31164	ENU01590p5
31165	ENU01590p3
31166	ENU01591p5
31167	ENU01591p3
31168	ENU01592p5
31169	ENU01592p3
31170	ENU01593p5
31171	ENU01593p3
31172	ENU01594p5
31173	ENU01594p3
31174	ENU01595p5
31175	ENU01595p3
31176	ENU01596p5
31177	ENU01596p3
31178	ENU01597p5
31179	ENU01597p3
31180	ENU01598p5
31181	ENU01598p3
31182	ENU01599p5
31183	ENU01599p3
31184	ENU01600p5
31185	ENU01600p3
31186	ENU01601p5

31187	ENU01601p3
31188	ENU01602p5
31189	ENU01602p3
31190	ENU01603p5
31191	ENU01603p3
31192	ENU01604p5
31193	ENU01604p3
31194	ENU01605p5
31195	ENU01605p3
31196	ENU01606p5
31197	ENU01606p3
31198	ENU01607p5
31199	ENU01607p3
31200	ENU01608p5
31201	ENU01608p3
31202	ENU01609p5
31203	ENU01609p3
31204	ENU01610p5
31205	ENU01610p3
31206	ENU01611p5
31207	ENU01611p3
31208	ENU01612p5
31209	ENU01612p3
31210	ENU01613p5
31211	ENU01613p3
31212	ENU01614p5
31213	ENU01614p3
31214	ENU01615p5
31215	ENU01615p3
31216	ENU01616p5
31217	ENU01616p3
31218	ENU01617p5
31219	ENU01617p3
31220	ENU01618p5
31221	ENU01618p3
31222	ENU01619p5
31223	ENU01619p3
31224	ENU01620p5
31225	ENU01620p3
31226	ENU01621p5
31227	ENU01621p3
31228	ENU01622p5
31229	ENU01622p3
31230	ENU01623p5
31231	ENU01623p3
31232	ENU01624p5
31233	ENU01624p3
31234	ENU01625p5
31235	ENU01625p3
31236	ENU01626p5
31237	ENU01626p3
31238	ENU01627p5
31239	ENU01627p3
31240	ENU01628p5
31241	ENU01628p3
31242	ENU01629p5

31243	ENU01629p3
31244	ENU01630p5
31245	ENU01630p3
31246	ENU01631p5
31247	ENU01631p3
31248	ENU01632p5
31249	ENU01632p3
31250	ENU01633p5
31251	ENU01633p3
31252	ENU01634p5
31253	ENU01634p3
31254	ENU01635p5
31255	ENU01635p3
31256	ENU01636p5
31257	ENU01636p3
31258	ENU01637p5
31259	ENU01637p3
31260	ENU01638p5
31261	ENU01638p3
31262	ENU01639p5
31263	ENU01639p3
31264	ENU01640p5
31265	ENU01640p3
31266	ENU01641p5
31267	ENU01641p3
31268	ENU01642p5
31269	ENU01642p3
31270	ENU01643p5
31271	ENU01643p3
31272	ENU01644p5
31273	ENU01644p3
31274	ENU01645p5
31275	ENU01645p3
31276	ENU01646p5
31277	ENU01646p3
31278	ENU01647p5
31279	ENU01647p3
31280	ENU01648p5
31281	ENU01648p3
31282	ENU01649p5
31283	ENU01649p3
31284	ENU01650p5
31285	ENU01650p3
31286	ENU01651p5
31287	ENU01651p3
31288	ENU01652p5
31289	ENU01652p3
31290	ENU01653p5
31291	ENU01653p3
31292	ENU01654p5
31293	ENU01654p3
31294	ENU01655p5
31295	ENU01655p3
31296	ENU01656p5
31297	ENU01656p3
31298	ENU01657p5

31299	ENU01657p3
31300	ENU01658p5
31301	ENU01658p3
31302	ENU01659p5
31303	ENU01659p3
31304	ENU01660p5
31305	ENU01660p3
31306	ENU01661p5
31307	ENU01661p3
31308	ENU01662p5
31309	ENU01662p3
31310	ENU01663p5
31311	ENU01663p3
31312	ENU01664p5
31313	ENU01664p3
31314	ENU01665p5
31315	ENU01665p3
31316	ENU01666p5
31317	ENU01666p3
31318	ENU01667p5
31319	ENU01667p3
31320	ENU01668p5
31321	ENU01668p3
31322	ENU01669p5
31323	ENU01669p3
31324	ENU01670p5
31325	ENU01670p3
31326	ENU01671p5
31327	ENU01671p3
31328	ENU01672p5
31329	ENU01672p3
31330	ENU01673p5
31331	ENU01673p3
31332	ENU01674p5
31333	ENU01674p3
31334	ENU01675p5
31335	ENU01675p3
31336	ENU01676p5
31337	ENU01676p3
31338	ENU01677p5
31339	ENU01677p3
31340	ENU01678p5
31341	ENU01678p3
31342	ENU01679p5
31343	ENU01679p3
31344	ENU01680p5
31345	ENU01680p3
31346	ENU01681p5
31347	ENU01681p3
31348	ENU01682p5
31349	ENU01682p3
31350	ENU01683p5
31351	ENU01683p3
31352	ENU01684p5
31353	ENU01684p3
31354	ENU01685p5

31355	ENU01685p3
31356	ENU01686p5
31357	ENU01686p3
31358	ENU01687p5
31359	ENU01687p3
31360	ENU01688p5
31361	ENU01688p3
31362	ENU01689p5
31363	ENU01689p3
31364	ENU01690p5
31365	ENU01690p3
31366	ENU01691p5
31367	ENU01691p3
31368	ENU01692p5
31369	ENU01692p3
31370	ENU01693p5
31371	ENU01693p3
31372	ENU01694p5
31373	ENU01694p3
31374	ENU01695p5
31375	ENU01695p3
31376	ENU01696p5
31377	ENU01696p3
31378	ENU01697p5
31379	ENU01697p3
31380	ENU01698p5
31381	ENU01698p3
31382	ENU01699p5
31383	ENU01699p3
31384	ENU01700p5
31385	ENU01700p3
31386	ENU01701p5
31387	ENU01701p3
31388	ENU01702p5
31389	ENU01702p3
31390	ENU01703p5
31391	ENU01703p3
31392	ENU01704p5
31393	ENU01704p3
31394	ENU01705p5
31395	ENU01705p3
31396	ENU01706p5
31397	ENU01706p3
31398	ENU01707p5
31399	ENU01707p3
31400	ENU01708p5
31401	ENU01708p3
31402	ENU01709p5
31403	ENU01709p3
31404	ENU01710p5
31405	ENU01710p3
31406	ENU01711p5
31407	ENU01711p3
31408	ENU01712p5
31409	ENU01712p3
31410	ENU01713p5

31411	ENU01713p3
31412	ENU01714p5
31413	ENU01714p3
31414	ENU01715p5
31415	ENU01715p3
31416	ENU01716p5
31417	ENU01716p3
31418	ENU01717p5
31419	ENU01717p3
31420	ENU01718p5
31421	ENU01718p3
31422	ENU01719p5
31423	ENU01719p3
31424	ENU01720p5
31425	ENU01720p3
31426	ENU01721p5
31427	ENU01721p3
31428	ENU01722p5
31429	ENU01722p3
31430	ENU01723p5
31431	ENU01723p3
31432	ENU01724p5
31433	ENU01724p3
31434	ENU01725p5
31435	ENU01725p3
31436	ENU01726p5
31437	ENU01726p3
31438	ENU01727p5
31439	ENU01727p3
31440	ENU01728p5
31441	ENU01728p3
31442	ENU01729p5
31443	ENU01729p3
31444	ENU01730p5
31445	ENU01730p3
31446	ENU01731p5
31447	ENU01731p3
31448	ENU01732p5
31449	ENU01732p3
31450	ENU01733p5
31451	ENU01733p3
31452	ENU01734p5
31453	ENU01734p3
31454	ENU01735p5
31455	ENU01735p3
31456	ENU01736p5
31457	ENU01736p3
31458	ENU01737p5
31459	ENU01737p3
31460	ENU01738p5
31461	ENU01738p3
31462	ENU01739p5
31463	ENU01739p3
31464	ENU01740p5
31465	ENU01740p3
31466	ENU01741p5

31467	ENU01741p3
31468	ENU01742p5
31469	ENU01742p3
31470	ENU01743p5
31471	ENU01743p3
31472	ENU01744p5
31473	ENU01744p3
31474	ENU01745p5
31475	ENU01745p3
31476	ENU01746p5
31477	ENU01746p3
31478	ENU01747p5
31479	ENU01747p3
31480	ENU01748p5
31481	ENU01748p3
31482	ENU01749p5
31483	ENU01749p3
31484	ENU01750p5
31485	ENU01750p3
31486	ENU01751p5
31487	ENU01751p3
31488	ENU01752p5
31489	ENU01752p3
31490	ENU01753p5
31491	ENU01753p3
31492	ENU01754p5
31493	ENU01754p3
31494	ENU01755p5
31495	ENU01755p3
31496	ENU01756p5
31497	ENU01756p3
31498	ENU01757p5
31499	ENU01757p3
31500	ENU01758p5
31501	ENU01758p3
31502	ENU01759p5
31503	ENU01759p3
31504	ENU01760p5
31505	ENU01760p3
31506	ENU01761p5
31507	ENU01761p3
31508	ENU01762p5
31509	ENU01762p3
31510	ENU01763p5
31511	ENU01763p3
31512	ENU01764p5
31513	ENU01764p3
31514	ENU01765p5
31515	ENU01765p3
31516	ENU01766p5
31517	ENU01766p3
31518	ENU01767p5
31519	ENU01767p3
31520	ENU01768p5
31521	ENU01768p3
31522	ENU01769p5

31523	ENU01769p3
31524	ENU01770p5
31525	ENU01770p3
31526	ENU01771p5
31527	ENU01771p3
31528	ENU01772p5
31529	ENU01772p3
31530	ENU01773p5
31531	ENU01773p3
31532	ENU01774p5
31533	ENU01774p3
31534	ENU01775p5
31535	ENU01775p3
31536	ENU01776p5
31537	ENU01776p3
31538	ENU01777p5
31539	ENU01777p3
31540	ENU01778p5
31541	ENU01778p3
31542	ENU01779p5
31543	ENU01779p3
31544	ENU01780p5
31545	ENU01780p3
31546	ENU01781p5
31547	ENU01781p3
31548	ENU01782p5
31549	ENU01782p3
31550	ENU01783p5
31551	ENU01783p3
31552	ENU01784p5
31553	ENU01784p3
31554	ENU01785p5
31555	ENU01785p3
31556	ENU01786p5
31557	ENU01786p3
31558	ENU01787p5
31559	ENU01787p3
31560	ENU01788p5
31561	ENU01788p3
31562	ENU01789p5
31563	ENU01789p3
31564	ENU01790p5
31565	ENU01790p3
31566	ENU01791p5
31567	ENU01791p3
31568	ENU01792p5
31569	ENU01792p3
31570	ENU01793p5
31571	ENU01793p3
31572	ENU01794p5
31573	ENU01794p3
31574	ENU01795p5
31575	ENU01795p3
31576	ENU01796p5
31577	ENU01796p3
31578	ENU01797p5

31579	ENU01797p3
31580	ENU01798p5
31581	ENU01798p3
31582	ENU01799p5
31583	ENU01799p3
31584	ENU01800p5
31585	ENU01800p3
31586	ENU01801p5
31587	ENU01801p3
31588	ENU01802p5
31589	ENU01802p3
31590	ENU01803p5
31591	ENU01803p3
31592	ENU01804p5
31593	ENU01804p3
31594	ENU01805p5
31595	ENU01805p3
31596	ENU01806p5
31597	ENU01806p3
31598	ENU01807p5
31599	ENU01807p3
31600	ENU01808p5
31601	ENU01808p3
31602	ENU01809p5
31603	ENU01809p3
31604	ENU01810p5
31605	ENU01810p3
31606	ENU01811p5
31607	ENU01811p3
31608	ENU01812p5
31609	ENU01812p3
31610	ENU01813p5
31611	ENU01813p3
31612	ENU01814p5
31613	ENU01814p3
31614	ENU01815p5
31615	ENU01815p3
31616	ENU01816p5
31617	ENU01816p3
31618	ENU01817p5
31619	ENU01817p3
31620	ENU01818p5
31621	ENU01818p3
31622	ENU01819p5
31623	ENU01819p3
31624	ENU01820p5
31625	ENU01820p3
31626	ENU01821p5
31627	ENU01821p3
31628	ENU01822p5
31629	ENU01822p3
31630	ENU01823p5
31631	ENU01823p3
31632	ENU01824p5
31633	ENU01824p3
31634	ENU01825p5

31635	ENU01825p3
31636	ENU01826p5
31637	ENU01826p3
31638	ENU01827p5
31639	ENU01827p3
31640	ENU01828p5
31641	ENU01828p3
31642	ENU01829p5
31643	ENU01829p3
31644	ENU01830p5
31645	ENU01830p3
31646	ENU01831p5
31647	ENU01831p3
31648	ENU01832p5
31649	ENU01832p3
31650	ENU01833p5
31651	ENU01833p3
31652	ENU01834p5
31653	ENU01834p3
31654	ENU01835p5
31655	ENU01835p3
31656	ENU01836p5
31657	ENU01836p3
31658	ENU01837p5
31659	ENU01837p3
31660	ENU01838p5
31661	ENU01838p3
31662	ENU01839p5
31663	ENU01839p3
31664	ENU01840p5
31665	ENU01840p3
31666	ENU01841p5
31667	ENU01841p3
31668	ENU01842p5
31669	ENU01842p3
31670	ENU01843p5
31671	ENU01843p3
31672	ENU01844p5
31673	ENU01844p3
31674	ENU01845p5
31675	ENU01845p3
31676	ENU01846p5
31677	ENU01846p3
31678	ENU01847p5
31679	ENU01847p3
31680	ENU01848p5
31681	ENU01848p3
31682	ENU01849p5
31683	ENU01849p3
31684	ENU01850p5
31685	ENU01850p3
31686	ENU01851p5
31687	ENU01851p3
31688	ENU01852p5
31689	ENU01852p3
31690	ENU01853p5

31691	ENU01853p3
31692	ENU01854p5
31693	ENU01854p3
31694	ENU01855p5
31695	ENU01855p3
31696	ENU01856p5
31697	ENU01856p3
31698	ENU01857p5
31699	ENU01857p3
31700	ENU01858p5
31701	ENU01858p3
31702	ENU01859p5
31703	ENU01859p3
31704	ENU01860p5
31705	ENU01860p3
31706	ENU01861p5
31707	ENU01861p3
31708	ENU01862p5
31709	ENU01862p3
31710	ENU01863p5
31711	ENU01863p3
31712	ENU01864p5
31713	ENU01864p3
31714	ENU01865p5
31715	ENU01865p3
31716	ENU01866p5
31717	ENU01866p3
31718	ENU01867p5
31719	ENU01867p3
31720	ENU01868p5
31721	ENU01868p3
31722	ENU01869p5
31723	ENU01869p3
31724	ENU01870p5
31725	ENU01870p3
31726	ENU01871p5
31727	ENU01871p3
31728	ENU01872p5
31729	ENU01872p3
31730	ENU01873p5
31731	ENU01873p3
31732	ENU01874p5
31733	ENU01874p3
31734	ENU01875p5
31735	ENU01875p3
31736	ENU01876p5
31737	ENU01876p3
31738	ENU01877p5
31739	ENU01877p3
31740	ENU01878p5
31741	ENU01878p3
31742	ENU01879p5
31743	ENU01879p3
31744	ENU01880p5
31745	ENU01880p3
31746	ENU01881p5

31747	ENU01881p3
31748	ENU01882p5
31749	ENU01882p3
31750	ENU01883p5
31751	ENU01883p3
31752	ENU01884p5
31753	ENU01884p3
31754	ENU01885p5
31755	ENU01885p3
31756	ENU01886p5
31757	ENU01886p3
31758	ENU01887p5
31759	ENU01887p3
31760	ENU01888p5
31761	ENU01888p3
31762	ENU01889p5
31763	ENU01889p3
31764	ENU01890p5
31765	ENU01890p3
31766	ENU01891p5
31767	ENU01891p3
31768	ENU01892p5
31769	ENU01892p3
31770	ENU01893p5
31771	ENU01893p3
31772	ENU01894p5
31773	ENU01894p3
31774	ENU01895p5
31775	ENU01895p3
31776	ENU01896p5
31777	ENU01896p3
31778	ENU01897p5
31779	ENU01897p3
31780	ENU01898p5
31781	ENU01898p3
31782	ENU01899p5
31783	ENU01899p3
31784	ENU01900p5
31785	ENU01900p3
31786	ENU01901p5
31787	ENU01901p3
31788	ENU01902p5
31789	ENU01902p3
31790	ENU01903p5
31791	ENU01903p3
31792	ENU01904p5
31793	ENU01904p3
31794	ENU01905p5
31795	ENU01905p3
31796	ENU01906p5
31797	ENU01906p3
31798	ENU01907p5
31799	ENU01907p3
31800	ENU01908p5
31801	ENU01908p3
31802	ENU01909p5

31803	ENU01909p3
31804	ENU01910p5
31805	ENU01910p3
31806	ENU01911p5
31807	ENU01911p3
31808	ENU01912p5
31809	ENU01912p3
31810	ENU01913p5
31811	ENU01913p3
31812	ENU01914p5
31813	ENU01914p3
31814	ENU01915p5
31815	ENU01915p3
31816	ENU01916p5
31817	ENU01916p3
31818	ENU01917p5
31819	ENU01917p3
31820	ENU01918p5
31821	ENU01918p3
31822	ENU01919p5
31823	ENU01919p3
31824	ENU01920p5
31825	ENU01920p3
31826	ENU01921p5
31827	ENU01921p3
31828	ENU01922p5
31829	ENU01922p3
31830	ENU01923p5
31831	ENU01923p3
31832	ENU01924p5
31833	ENU01924p3
31834	ENU01925p5
31835	ENU01925p3
31836	ENU01926p5
31837	ENU01926p3
31838	ENU01927p5
31839	ENU01927p3
31840	ENU01928p5
31841	ENU01928p3
31842	ENU01929p5
31843	ENU01929p3
31844	ENU01930p5
31845	ENU01930p3
31846	ENU01931p5
31847	ENU01931p3
31848	ENU01932p5
31849	ENU01932p3
31850	ENU01933p5
31851	ENU01933p3
31852	ENU01934p5
31853	ENU01934p3
31854	ENU01935p5
31855	ENU01935p3
31856	ENU01936p5
31857	ENU01936p3
31858	ENU01937p5

31859	ENU01937p3
31860	ENU01938p5
31861	ENU01938p3
31862	ENU01939p5
31863	ENU01939p3
31864	ENU01940p5
31865	ENU01940p3
31866	ENU01941p5
31867	ENU01941p3
31868	ENU01942p5
31869	ENU01942p3
31870	ENU01943p5
31871	ENU01943p3
31872	ENU01944p5
31873	ENU01944p3
31874	ENU01945p5
31875	ENU01945p3
31876	ENU01946p5
31877	ENU01946p3
31878	ENU01947p5
31879	ENU01947p3
31880	ENU01948p5
31881	ENU01948p3
31882	ENU01949p5
31883	ENU01949p3
31884	ENU01950p5
31885	ENU01950p3
31886	ENU01951p5
31887	ENU01951p3
31888	ENU01952p5
31889	ENU01952p3
31890	ENU01953p5
31891	ENU01953p3
31892	ENU01954p5
31893	ENU01954p3
31894	ENU01955p5
31895	ENU01955p3
31896	ENU01956p5
31897	ENU01956p3
31898	ENU01957p5
31899	ENU01957p3
31900	ENU01958p5
31901	ENU01958p3
31902	ENU01959p5
31903	ENU01959p3
31904	ENU01960p5
31905	ENU01960p3
31906	ENU01961p5
31907	ENU01961p3
31908	ENU01962p5
31909	ENU01962p3
31910	ENU01963p5
31911	ENU01963p3
31912	ENU01964p5
31913	ENU01964p3
31914	ENU01965p5

31915	ENU01965p3
31916	ENU01966p5
31917	ENU01966p3
31918	ENU01967p5
31919	ENU01967p3
31920	ENU01968p5
31921	ENU01968p3
31922	ENU01969p5
31923	ENU01969p3
31924	ENU01970p5
31925	ENU01970p3
31926	ENU01971p5
31927	ENU01971p3
31928	ENU01972p5
31929	ENU01972p3
31930	ENU01973p5
31931	ENU01973p3
31932	ENU01974p5
31933	ENU01974p3
31934	ENU01975p5
31935	ENU01975p3
31936	ENU01976p5
31937	ENU01976p3
31938	ENU01977p5
31939	ENU01977p3
31940	ENU01978p5
31941	ENU01978p3
31942	ENU01979p5
31943	ENU01979p3
31944	ENU01980p5
31945	ENU01980p3
31946	ENU01981p5
31947	ENU01981p3
31948	ENU01982p5
31949	ENU01982p3
31950	ENU01983p5
31951	ENU01983p3
31952	ENU01984p5
31953	ENU01984p3
31954	ENU01985p5
31955	ENU01985p3
31956	ENU01986p5
31957	ENU01986p3
31958	ENU01987p5
31959	ENU01987p3
31960	ENU01988p5
31961	ENU01988p3
31962	ENU01989p5
31963	ENU01989p3
31964	ENU01990p5
31965	ENU01990p3
31966	ENU01991p5
31967	ENU01991p3
31968	ENU01992p5
31969	ENU01992p3
31970	ENU01993p5

31971	ENU01993p3
31972	ENU01994p5
31973	ENU01994p3
31974	ENU01995p5
31975	ENU01995p3
31976	ENU01996p5
31977	ENU01996p3
31978	ENU01997p5
31979	ENU01997p3
31980	ENU01998p5
31981	ENU01998p3
31982	ENU01999p5
31983	ENU01999p3
31984	ENU02000p5
31985	ENU02000p3
31986	ENU02001p5
31987	ENU02001p3
31988	ENU02002p5
31989	ENU02002p3
31990	ENU02003p5
31991	ENU02003p3
31992	ENU02004p5
31993	ENU02004p3
31994	ENU02005p5
31995	ENU02005p3
31996	ENU02006p5
31997	ENU02006p3
31998	ENU02007p5
31999	ENU02007p3
32000	ENU02008p5
32001	ENU02008p3
32002	ENU02009p5
32003	ENU02009p3
32004	ENU02010p5
32005	ENU02010p3
32006	ENU02011p5
32007	ENU02011p3
32008	ENU02012p5
32009	ENU02012p3
32010	ENU02013p5
32011	ENU02013p3
32012	ENU02014p5
32013	ENU02014p3
32014	ENU02015p5
32015	ENU02015p3
32016	ENU02016p5
32017	ENU02016p3
32018	ENU02017p5
32019	ENU02017p3
32020	ENU02018p5
32021	ENU02018p3
32022	ENU02019p5
32023	ENU02019p3
32024	ENU02020p5
32025	ENU02020p3
32026	ENU02021p5

32027	ENU02021p3
32028	ENU02022p5
32029	ENU02022p3
32030	ENU02023p5
32031	ENU02023p3
32032	ENU02024p5
32033	ENU02024p3
32034	ENU02025p5
32035	ENU02025p3
32036	ENU02026p5
32037	ENU02026p3
32038	ENU02027p5
32039	ENU02027p3
32040	ENU02028p5
32041	ENU02028p3
32042	ENU02029p5
32043	ENU02029p3
32044	ENU02030p5
32045	ENU02030p3
32046	ENU02031p5
32047	ENU02031p3
32048	ENU02032p5
32049	ENU02032p3
32050	ENU02033p5
32051	ENU02033p3
32052	ENU02034p5
32053	ENU02034p3
32054	ENU02035p5
32055	ENU02035p3
32056	ENU02036p5
32057	ENU02036p3
32058	ENU02037p5
32059	ENU02037p3
32060	ENU02038p5
32061	ENU02038p3
32062	ENU02039p5
32063	ENU02039p3
32064	ENU02040p5
32065	ENU02040p3
32066	ENU02041p5
32067	ENU02041p3
32068	ENU02042p5
32069	ENU02042p3
32070	ENU02043p5
32071	ENU02043p3
32072	ENU02044p5
32073	ENU02044p3
32074	ENU02045p5
32075	ENU02045p3
32076	ENU02046p5
32077	ENU02046p3
32078	ENU02047p5
32079	ENU02047p3
32080	ENU02048p5
32081	ENU02048p3
32082	ENU02049p5

32083	ENU02049p3
32084	ENU02050p5
32085	ENU02050p3
32086	ENU02051p5
32087	ENU02051p3
32088	ENU02052p5
32089	ENU02052p3
32090	ENU02053p5
32091	ENU02053p3
32092	ENU02054p5
32093	ENU02054p3
32094	ENU02055p5
32095	ENU02055p3
32096	ENU02056p5
32097	ENU02056p3
32098	ENU02057p5
32099	ENU02057p3
32100	ENU02058p5
32101	ENU02058p3
32102	ENU02059p5
32103	ENU02059p3
32104	ENU02060p5
32105	ENU02060p3
32106	ENU02061p5
32107	ENU02061p3
32108	ENU02062p5
32109	ENU02062p3
32110	ENU02063p5
32111	ENU02063p3
32112	ENU02064p5
32113	ENU02064p3
32114	ENU02065p5
32115	ENU02065p3
32116	ENU02066p5
32117	ENU02066p3
32118	ENU02067p5
32119	ENU02067p3
32120	ENU02068p5
32121	ENU02068p3
32122	ENU02069p5
32123	ENU02069p3
32124	ENU02070p5
32125	ENU02070p3
32126	ENU02071p5
32127	ENU02071p3
32128	ENU02072p5
32129	ENU02072p3
32130	ENU02073p5
32131	ENU02073p3
32132	ENU02074p5
32133	ENU02074p3
32134	ENU02075p5
32135	ENU02075p3
32136	ENU02076p5
32137	ENU02076p3
32138	ENU02077p5

32139	ENU02077p3
32140	ENU02078p5
32141	ENU02078p3
32142	ENU02079p5
32143	ENU02079p3
32144	ENU02080p5
32145	ENU02080p3
32146	ENU02081p5
32147	ENU02081p3
32148	ENU02082p5
32149	ENU02082p3
32150	ENU02083p5
32151	ENU02083p3
32152	ENU02084p5
32153	ENU02084p3
32154	ENU02085p5
32155	ENU02085p3
32156	ENU02086p5
32157	ENU02086p3
32158	ENU02087p5
32159	ENU02087p3
32160	ENU02088p5
32161	ENU02088p3
32162	ENU02089p5
32163	ENU02089p3
32164	ENU02090p5
32165	ENU02090p3
32166	ENU02091p5
32167	ENU02091p3
32168	ENU02092p5
32169	ENU02092p3
32170	ENU02093p5
32171	ENU02093p3
32172	ENU02094p5
32173	ENU02094p3
32174	ENU02095p5
32175	ENU02095p3
32176	ENU02096p5
32177	ENU02096p3
32178	ENU02097p5
32179	ENU02097p3
32180	ENU02098p5
32181	ENU02098p3
32182	ENU02099p5
32183	ENU02099p3
32184	ENU02100p5
32185	ENU02100p3
32186	ENU02101p5
32187	ENU02101p3
32188	ENU02102p5
32189	ENU02102p3
32190	ENU02103p5
32191	ENU02103p3
32192	ENU02104p5
32193	ENU02104p3
32194	ENU02105p5

32195	ENU02105p3
32196	ENU02106p5
32197	ENU02106p3
32198	ENU02107p5
32199	ENU02107p3
32200	ENU02108p5
32201	ENU02108p3
32202	ENU02109p5
32203	ENU02109p3
32204	ENU02110p5
32205	ENU02110p3
32206	ENU02111p5
32207	ENU02111p3
32208	ENU02112p5
32209	ENU02112p3
32210	ENU02113p5
32211	ENU02113p3
32212	ENU02114p5
32213	ENU02114p3
32214	ENU02115p5
32215	ENU02115p3
32216	ENU02116p5
32217	ENU02116p3
32218	ENU02117p5
32219	ENU02117p3
32220	ENU02118p5
32221	ENU02118p3
32222	ENU02119p5
32223	ENU02119p3
32224	ENU02120p5
32225	ENU02120p3
32226	ENU02121p5
32227	ENU02121p3
32228	ENU02122p5
32229	ENU02122p3
32230	ENU02123p5
32231	ENU02123p3
32232	ENU02124p5
32233	ENU02124p3
32234	ENU02125p5
32235	ENU02125p3
32236	ENU02126p5
32237	ENU02126p3
32238	ENU02127p5
32239	ENU02127p3
32240	ENU02128p5
32241	ENU02128p3
32242	ENU02129p5
32243	ENU02129p3
32244	ENU02130p5
32245	ENU02130p3
32246	ENU02131p5
32247	ENU02131p3
32248	ENU02132p5
32249	ENU02132p3
32250	ENU02133p5

32251	ENU02133p3
32252	ENU02134p5
32253	ENU02134p3
32254	ENU02135p5
32255	ENU02135p3
32256	ENU02136p5
32257	ENU02136p3
32258	ENU02137p5
32259	ENU02137p3
32260	ENU02138p5
32261	ENU02138p3
32262	ENU02139p5
32263	ENU02139p3
32264	ENU02140p5
32265	ENU02140p3
32266	ENU02141p5
32267	ENU02141p3
32268	ENU02142p5
32269	ENU02142p3
32270	ENU02143p5
32271	ENU02143p3
32272	ENU02144p5
32273	ENU02144p3
32274	ENU02145p5
32275	ENU02145p3
32276	ENU02146p5
32277	ENU02146p3
32278	ENU02147p5
32279	ENU02147p3
32280	ENU02148p5
32281	ENU02148p3
32282	ENU02149p5
32283	ENU02149p3
32284	ENU02150p5
32285	ENU02150p3
32286	ENU02151p5
32287	ENU02151p3
32288	ENU02152p5
32289	ENU02152p3
32290	ENU02153p5
32291	ENU02153p3
32292	ENU02154p5
32293	ENU02154p3
32294	ENU02155p5
32295	ENU02155p3
32296	ENU02156p5
32297	ENU02156p3
32298	ENU02157p5
32299	ENU02157p3
32300	ENU02158p5
32301	ENU02158p3
32302	ENU02159p5
32303	ENU02159p3
32304	ENU02160p5
32305	ENU02160p3
32306	ENU02161p5

32307	ENU02161p3
32308	ENU02162p5
32309	ENU02162p3
32310	ENU02163p5
32311	ENU02163p3
32312	ENU02164p5
32313	ENU02164p3
32314	ENU02165p5
32315	ENU02165p3
32316	ENU02166p5
32317	ENU02166p3
32318	ENU02167p5
32319	ENU02167p3
32320	ENU02168p5
32321	ENU02168p3
32322	ENU02169p5
32323	ENU02169p3
32324	ENU02170p5
32325	ENU02170p3
32326	ENU02171p5
32327	ENU02171p3
32328	ENU02172p5
32329	ENU02172p3
32330	ENU02173p5
32331	ENU02173p3
32332	ENU02174p5
32333	ENU02174p3
32334	ENU02175p5
32335	ENU02175p3
32336	ENU02176p5
32337	ENU02176p3
32338	ENU02177p5
32339	ENU02177p3
32340	ENU02178p5
32341	ENU02178p3
32342	ENU02179p5
32343	ENU02179p3
32344	ENU02180p5
32345	ENU02180p3
32346	ENU02181p5
32347	ENU02181p3
32348	ENU02182p5
32349	ENU02182p3
32350	ENU02183p5
32351	ENU02183p3
32352	ENU02184p5
32353	ENU02184p3
32354	ENU02185p5
32355	ENU02185p3
32356	ENU02186p5
32357	ENU02186p3
32358	ENU02187p5
32359	ENU02187p3
32360	ENU02188p5
32361	ENU02188p3
32362	ENU02189p5

32363	ENU02189p3
32364	ENU02190p5
32365	ENU02190p3
32366	ENU02191p5
32367	ENU02191p3
32368	ENU02192p5
32369	ENU02192p3
32370	ENU02193p5
32371	ENU02193p3
32372	ENU02194p5
32373	ENU02194p3
32374	ENU02195p5
32375	ENU02195p3
32376	ENU02196p5
32377	ENU02196p3
32378	ENU02197p5
32379	ENU02197p3
32380	ENU02198p5
32381	ENU02198p3
32382	ENU02199p5
32383	ENU02199p3
32384	ENU02200p5
32385	ENU02200p3
32386	ENU02201p5
32387	ENU02201p3
32388	ENU02202p5
32389	ENU02202p3
32390	ENU02203p5
32391	ENU02203p3
32392	ENU02204p5
32393	ENU02204p3
32394	ENU02205p5
32395	ENU02205p3
32396	ENU02206p5
32397	ENU02206p3
32398	ENU02207p5
32399	ENU02207p3
32400	ENU02208p5
32401	ENU02208p3
32402	ENU02209p5
32403	ENU02209p3
32404	ENU02210p5
32405	ENU02210p3
32406	ENU02211p5
32407	ENU02211p3
32408	ENU02212p5
32409	ENU02212p3
32410	ENU02213p5
32411	ENU02213p3
32412	ENU02214p5
32413	ENU02214p3
32414	ENU02215p5
32415	ENU02215p3
32416	ENU02216p5
32417	ENU02216p3
32418	ENU02217p5

32419	ENU02217p3
32420	ENU02218p5
32421	ENU02218p3
32422	ENU02219p5
32423	ENU02219p3
32424	ENU02220p5
32425	ENU02220p3
32426	ENU02221p5
32427	ENU02221p3
32428	ENU02222p5
32429	ENU02222p3
32430	ENU02223p5
32431	ENU02223p3
32432	ENU02224p5
32433	ENU02224p3
32434	ENU02225p5
32435	ENU02225p3
32436	ENU02226p5
32437	ENU02226p3
32438	ENU02227p5
32439	ENU02227p3
32440	ENU02228p5
32441	ENU02228p3
32442	ENU02229p5
32443	ENU02229p3
32444	ENU02230p5
32445	ENU02230p3
32446	ENU02231p5
32447	ENU02231p3
32448	ENU02232p5
32449	ENU02232p3
32450	ENU02233p5
32451	ENU02233p3
32452	ENU02234p5
32453	ENU02234p3
32454	ENU02235p5
32455	ENU02235p3
32456	ENU02236p5
32457	ENU02236p3
32458	ENU02237p5
32459	ENU02237p3
32460	ENU02238p5
32461	ENU02238p3
32462	ENU02239p5
32463	ENU02239p3
32464	ENU02240p5
32465	ENU02240p3
32466	ENU02241p5
32467	ENU02241p3
32468	ENU02242p5
32469	ENU02242p3
32470	ENU02243p5
32471	ENU02243p3
32472	ENU02244p5
32473	ENU02244p3
32474	ENU02245p5

32475	ENU02245p3
32476	ENU02246p5
32477	ENU02246p3
32478	ENU02247p5
32479	ENU02247p3
32480	ENU02248p5
32481	ENU02248p3
32482	ENU02249p5
32483	ENU02249p3
32484	ENU02250p5
32485	ENU02250p3
32486	ENU02251p5
32487	ENU02251p3
32488	ENU02252p5
32489	ENU02252p3
32490	ENU02253p5
32491	ENU02253p3
32492	ENU02254p5
32493	ENU02254p3
32494	ENU02255p5
32495	ENU02255p3
32496	ENU02256p5
32497	ENU02256p3
32498	ENU02257p5
32499	ENU02257p3
32500	ENU02258p5
32501	ENU02258p3
32502	ENU02259p5
32503	ENU02259p3
32504	ENU02260p5
32505	ENU02260p3
32506	ENU02261p5
32507	ENU02261p3
32508	ENU02262p5
32509	ENU02262p3
32510	ENU02263p5
32511	ENU02263p3
32512	ENU02264p5
32513	ENU02264p3
32514	ENU02265p5
32515	ENU02265p3
32516	ENU02266p5
32517	ENU02266p3
32518	ENU02267p5
32519	ENU02267p3
32520	ENU02268p5
32521	ENU02268p3
32522	ENU02269p5
32523	ENU02269p3
32524	ENU02270p5
32525	ENU02270p3
32526	ENU02271p5
32527	ENU02271p3
32528	ENU02272p5
32529	ENU02272p3
32530	ENU02273p5

32531	ENU02273p3
32532	ENU02274p5
32533	ENU02274p3
32534	ENU02275p5
32535	ENU02275p3
32536	ENU02276p5
32537	ENU02276p3
32538	ENU02277p5
32539	ENU02277p3
32540	ENU02278p5
32541	ENU02278p3
32542	ENU02279p5
32543	ENU02279p3
32544	ENU02280p5
32545	ENU02280p3
32546	ENU02281p5
32547	ENU02281p3
32548	ENU02282p5
32549	ENU02282p3
32550	ENU02283p5
32551	ENU02283p3
32552	ENU02284p5
32553	ENU02284p3
32554	ENU02285p5
32555	ENU02285p3
32556	ENU02286p5
32557	ENU02286p3
32558	ENU02287p5
32559	ENU02287p3
32560	ENU02288p5
32561	ENU02288p3
32562	ENU02289p5
32563	ENU02289p3
32564	ENU02290p5
32565	ENU02290p3
32566	ENU02291p5
32567	ENU02291p3
32568	ENU02292p5
32569	ENU02292p3
32570	ENU02293p5
32571	ENU02293p3
32572	ENU02294p5
32573	ENU02294p3
32574	ENU02295p5
32575	ENU02295p3
32576	ENU02296p5
32577	ENU02296p3
32578	ENU02297p5
32579	ENU02297p3
32580	ENU02298p5
32581	ENU02298p3
32582	ENU02299p5
32583	ENU02299p3
32584	ENU02300p5
32585	ENU02300p3
32586	ENU02301p5

32587	ENU02301p3
32588	ENU02302p5
32589	ENU02302p3
32590	ENU02303p5
32591	ENU02303p3
32592	ENU02304p5
32593	ENU02304p3
32594	ENU02305p5
32595	ENU02305p3
32596	ENU02306p5
32597	ENU02306p3
32598	ENU02307p5
32599	ENU02307p3
32600	ENU02308p5
32601	ENU02308p3
32602	ENU02309p5
32603	ENU02309p3
32604	ENU02310p5
32605	ENU02310p3
32606	ENU02311p5
32607	ENU02311p3
32608	ENU02312p5
32609	ENU02312p3
32610	ENU02313p5
32611	ENU02313p3
32612	ENU02314p5
32613	ENU02314p3
32614	ENU02315p5
32615	ENU02315p3
32616	ENU02316p5
32617	ENU02316p3
32618	ENU02317p5
32619	ENU02317p3
32620	ENU02318p5
32621	ENU02318p3
32622	ENU02319p5
32623	ENU02319p3
32624	ENU02320p5
32625	ENU02320p3
32626	ENU02321p5
32627	ENU02321p3
32628	ENU02322p5
32629	ENU02322p3
32630	ENU02323p5
32631	ENU02323p3
32632	ENU02324p5
32633	ENU02324p3
32634	ENU02325p5
32635	ENU02325p3
32636	ENU02326p5
32637	ENU02326p3
32638	ENU02327p5
32639	ENU02327p3
32640	ENU02328p5
32641	ENU02328p3
32642	ENU02329p5

32643	ENU02329p3
32644	ENU02330p5
32645	ENU02330p3
32646	ENU02331p5
32647	ENU02331p3
32648	ENU02332p5
32649	ENU02332p3
32650	ENU02333p5
32651	ENU02333p3
32652	ENU02334p5
32653	ENU02334p3
32654	ENU02335p5
32655	ENU02335p3
32656	ENU02336p5
32657	ENU02336p3
32658	ENU02337p5
32659	ENU02337p3
32660	ENU02338p5
32661	ENU02338p3
32662	ENU02339p5
32663	ENU02339p3
32664	ENU02340p5
32665	ENU02340p3
32666	ENU02341p5
32667	ENU02341p3
32668	ENU02342p5
32669	ENU02342p3
32670	ENU02343p5
32671	ENU02343p3
32672	ENU02344p5
32673	ENU02344p3
32674	ENU02345p5
32675	ENU02345p3
32676	ENU02346p5
32677	ENU02346p3
32678	ENU02347p5
32679	ENU02347p3
32680	ENU02348p5
32681	ENU02348p3
32682	ENU02349p5
32683	ENU02349p3
32684	ENU02350p5
32685	ENU02350p3
32686	ENU02351p5
32687	ENU02351p3
32688	ENU02352p5
32689	ENU02352p3
32690	ENU02353p5
32691	ENU02353p3
32692	ENU02354p5
32693	ENU02354p3
32694	ENU02355p5
32695	ENU02355p3
32696	ENU02356p5
32697	ENU02356p3
32698	ENU02357p5

32699	ENU02357p3
32700	ENU02358p5
32701	ENU02358p3
32702	ENU02359p5
32703	ENU02359p3
32704	ENU02360p5
32705	ENU02360p3
32706	ENU02361p5
32707	ENU02361p3
32708	ENU02362p5
32709	ENU02362p3
32710	ENU02363p5
32711	ENU02363p3
32712	ENU02364p5
32713	ENU02364p3
32714	ENU02365p5
32715	ENU02365p3
32716	ENU02366p5
32717	ENU02366p3
32718	ENU02367p5
32719	ENU02367p3
32720	ENU02368p5
32721	ENU02368p3
32722	ENU02369p5
32723	ENU02369p3
32724	ENU02370p5
32725	ENU02370p3
32726	ENU02371p5
32727	ENU02371p3
32728	ENU02372p5
32729	ENU02372p3
32730	ENU02373p5
32731	ENU02373p3
32732	ENU02374p5
32733	ENU02374p3
32734	ENU02375p5
32735	ENU02375p3
32736	ENU02376p5
32737	ENU02376p3
32738	ENU02377p5
32739	ENU02377p3
32740	ENU02378p5
32741	ENU02378p3
32742	ENU02379p5
32743	ENU02379p3
32744	ENU02380p5
32745	ENU02380p3
32746	ENU02381p5
32747	ENU02381p3
32748	ENU02382p5
32749	ENU02382p3
32750	ENU02383p5
32751	ENU02383p3
32752	ENU02384p5
32753	ENU02384p3
32754	ENU02385p5

32755	ENU02385p3
32756	ENU02386p5
32757	ENU02386p3
32758	ENU02387p5
32759	ENU02387p3
32760	ENU02388p5
32761	ENU02388p3
32762	ENU02389p5
32763	ENU02389p3
32764	ENU02390p5
32765	ENU02390p3
32766	ENU02391p5
32767	ENU02391p3
32768	ENU02392p5
32769	ENU02392p3
32770	ENU02393p5
32771	ENU02393p3
32772	ENU02394p5
32773	ENU02394p3
32774	ENU02395p5
32775	ENU02395p3
32776	ENU02396p5
32777	ENU02396p3
32778	ENU02397p5
32779	ENU02397p3
32780	ENU02398p5
32781	ENU02398p3
32782	ENU02399p5
32783	ENU02399p3
32784	ENU02400p5
32785	ENU02400p3
32786	ENU02401p5
32787	ENU02401p3
32788	ENU02402p5
32789	ENU02402p3
32790	ENU02403p5
32791	ENU02403p3
32792	ENU02404p5
32793	ENU02404p3
32794	ENU02405p5
32795	ENU02405p3
32796	ENU02406p5
32797	ENU02406p3
32798	ENU02407p5
32799	ENU02407p3
32800	ENU02408p5
32801	ENU02408p3
32802	ENU02409p5
32803	ENU02409p3
32804	ENU02410p5
32805	ENU02410p3
32806	ENU02411p5
32807	ENU02411p3
32808	ENU02412p5
32809	ENU02412p3
32810	ENU02413p5

32811	ENU02413p3
32812	ENU02414p5
32813	ENU02414p3
32814	ENU02415p5
32815	ENU02415p3
32816	ENU02416p5
32817	ENU02416p3
32818	ENU02417p5
32819	ENU02417p3
32820	ENU02418p5
32821	ENU02418p3
32822	ENU02419p5
32823	ENU02419p3
32824	ENU02420p5
32825	ENU02420p3
32826	ENU02421p5
32827	ENU02421p3
32828	ENU02422p5
32829	ENU02422p3
32830	ENU02423p5
32831	ENU02423p3
32832	ENU02424p5
32833	ENU02424p3
32834	ENU02425p5
32835	ENU02425p3
32836	ENU02426p5
32837	ENU02426p3
32838	ENU02427p5
32839	ENU02427p3
32840	ENU02428p5
32841	ENU02428p3
32842	ENU02429p5
32843	ENU02429p3
32844	ENU02430p5
32845	ENU02430p3
32846	ENU02431p5
32847	ENU02431p3
32848	ENU02432p5
32849	ENU02432p3
32850	ENU02433p5
32851	ENU02433p3
32852	ENU02434p5
32853	ENU02434p3
32854	ENU02435p5
32855	ENU02435p3
32856	ENU02436p5
32857	ENU02436p3
32858	ENU02437p5
32859	ENU02437p3
32860	ENU02438p5
32861	ENU02438p3
32862	ENU02439p5
32863	ENU02439p3
32864	ENU02440p5
32865	ENU02440p3
32866	ENU02441p5

32867	ENU02441p3
32868	ENU02442p5
32869	ENU02442p3
32870	ENU02443p5
32871	ENU02443p3
32872	ENU02444p5
32873	ENU02444p3
32874	ENU02445p5
32875	ENU02445p3
32876	ENU02446p5
32877	ENU02446p3
32878	ENU02447p5
32879	ENU02447p3
32880	ENU02448p5
32881	ENU02448p3
32882	ENU02449p5
32883	ENU02449p3
32884	ENU02450p5
32885	ENU02450p3
32886	ENU02451p5
32887	ENU02451p3
32888	ENU02452p5
32889	ENU02452p3
32890	ENU02453p5
32891	ENU02453p3
32892	ENU02454p5
32893	ENU02454p3
32894	ENU02455p5
32895	ENU02455p3
32896	ENU02456p5
32897	ENU02456p3
32898	ENU02457p5
32899	ENU02457p3
32900	ENU02458p5
32901	ENU02458p3
32902	ENU02459p5
32903	ENU02459p3
32904	ENU02460p5
32905	ENU02460p3
32906	ENU02461p5
32907	ENU02461p3
32908	ENU02462p5
32909	ENU02462p3
32910	ENU02463p5
32911	ENU02463p3
32912	ENU02464p5
32913	ENU02464p3
32914	ENU02465p5
32915	ENU02465p3
32916	ENU02466p5
32917	ENU02466p3
32918	ENU02467p5
32919	ENU02467p3
32920	ENU02468p5
32921	ENU02468p3
32922	ENU02469p5

32923	ENU02469p3
32924	ENU02470p5
32925	ENU02470p3
32926	ENU02471p5
32927	ENU02471p3
32928	ENU02472p5
32929	ENU02472p3
32930	ENU02473p5
32931	ENU02473p3
32932	ENU02474p5
32933	ENU02474p3
32934	ENU02475p5
32935	ENU02475p3
32936	ENU02476p5
32937	ENU02476p3
32938	ENU02477p5
32939	ENU02477p3
32940	ENU02478p5
32941	ENU02478p3
32942	ENU02479p5
32943	ENU02479p3
32944	ENU02480p5
32945	ENU02480p3
32946	ENU02481p5
32947	ENU02481p3
32948	ENU02482p5
32949	ENU02482p3
32950	ENU02483p5
32951	ENU02483p3
32952	ENU02484p5
32953	ENU02484p3
32954	ENU02485p5
32955	ENU02485p3
32956	ENU02486p5
32957	ENU02486p3
32958	ENU02487p5
32959	ENU02487p3
32960	ENU02488p5
32961	ENU02488p3
32962	ENU02489p5
32963	ENU02489p3
32964	ENU02490p5
32965	ENU02490p3
32966	ENU02491p5
32967	ENU02491p3
32968	ENU02492p5
32969	ENU02492p3
32970	ENU02493p5
32971	ENU02493p3
32972	ENU02494p5
32973	ENU02494p3
32974	ENU02495p5
32975	ENU02495p3
32976	ENU02496p5
32977	ENU02496p3
32978	ENU02497p5

32979	ENU02497p3
32980	ENU02498p5
32981	ENU02498p3
32982	ENU02499p5
32983	ENU02499p3
32984	ENU02500p5
32985	ENU02500p3
32986	ENU02501p5
32987	ENU02501p3
32988	ENU02502p5
32989	ENU02502p3
32990	ENU02503p5
32991	ENU02503p3
32992	ENU02504p5
32993	ENU02504p3
32994	ENU02505p5
32995	ENU02505p3
32996	ENU02506p5
32997	ENU02506p3
32998	ENU02507p5
32999	ENU02507p3
33000	ENU02508p5
33001	ENU02508p3
33002	ENU02509p5
33003	ENU02509p3
33004	ENU02510p5
33005	ENU02510p3
33006	ENU02511p5
33007	ENU02511p3
33008	ENU02512p5
33009	ENU02512p3
33010	ENU02513p5
33011	ENU02513p3
33012	ENU02514p5
33013	ENU02514p3
33014	ENU02515p5
33015	ENU02515p3
33016	ENU02516p5
33017	ENU02516p3
33018	ENU02517p5
33019	ENU02517p3
33020	ENU02518p5
33021	ENU02518p3
33022	ENU02519p5
33023	ENU02519p3
33024	ENU02520p5
33025	ENU02520p3
33026	ENU02521p5
33027	ENU02521p3
33028	ENU02522p5
33029	ENU02522p3
33030	ENU02523p5
33031	ENU02523p3
33032	ENU02524p5
33033	ENU02524p3
33034	ENU02525p5

33035	ENU02525p3
33036	ENU02526p5
33037	ENU02526p3
33038	ENU02527p5
33039	ENU02527p3
33040	ENU02528p5
33041	ENU02528p3
33042	ENU02529p5
33043	ENU02529p3
33044	ENU02530p5
33045	ENU02530p3
33046	ENU02531p5
33047	ENU02531p3
33048	ENU02532p5
33049	ENU02532p3
33050	ENU02533p5
33051	ENU02533p3
33052	ENU02534p5
33053	ENU02534p3
33054	ENU02535p5
33055	ENU02535p3
33056	ENU02536p5
33057	ENU02536p3
33058	ENU02537p5
33059	ENU02537p3
33060	ENU02538p5
33061	ENU02538p3
33062	ENU02539p5
33063	ENU02539p3
33064	ENU02540p5
33065	ENU02540p3
33066	ENU02541p5
33067	ENU02541p3
33068	ENU02542p5
33069	ENU02542p3
33070	ENU02543p5
33071	ENU02543p3
33072	ENU02544p5
33073	ENU02544p3
33074	ENU02545p5
33075	ENU02545p3
33076	ENU02546p5
33077	ENU02546p3
33078	ENU02547p5
33079	ENU02547p3
33080	ENU02548p5
33081	ENU02548p3
33082	ENU02549p5
33083	ENU02549p3
33084	ENU02550p5
33085	ENU02550p3
33086	ENU02551p5
33087	ENU02551p3
33088	ENU02552p5
33089	ENU02552p3
33090	ENU02553p5

33091	ENU02553p3
33092	ENU02554p5
33093	ENU02554p3
33094	ENU02555p5
33095	ENU02555p3
33096	ENU02556p5
33097	ENU02556p3
33098	ENU02557p5
33099	ENU02557p3
33100	ENU02558p5
33101	ENU02558p3
33102	ENU02559p5
33103	ENU02559p3
33104	ENU02560p5
33105	ENU02560p3
33106	ENU02561p5
33107	ENU02561p3
33108	ENU02562p5
33109	ENU02562p3
33110	ENU02563p5
33111	ENU02563p3
33112	ENU02564p5
33113	ENU02564p3
33114	ENU02565p5
33115	ENU02565p3
33116	ENU02566p5
33117	ENU02566p3
33118	ENU02567p5
33119	ENU02567p3
33120	ENU02568p5
33121	ENU02568p3
33122	ENU02569p5
33123	ENU02569p3
33124	ENU02570p5
33125	ENU02570p3
33126	ENU02571p5
33127	ENU02571p3
33128	ENU02572p5
33129	ENU02572p3
33130	ENU02573p5
33131	ENU02573p3
33132	ENU02574p5
33133	ENU02574p3
33134	ENU02575p5
33135	ENU02575p3
33136	ENU02576p5
33137	ENU02576p3
33138	ENU02577p5
33139	ENU02577p3
33140	ENU02578p5
33141	ENU02578p3
33142	ENU02579p5
33143	ENU02579p3
33144	ENU02580p5
33145	ENU02580p3
33146	ENU02581p5

33147	ENU02581p3
33148	ENU02582p5
33149	ENU02582p3
33150	ENU02583p5
33151	ENU02583p3
33152	ENU02584p5
33153	ENU02584p3
33154	ENU02585p5
33155	ENU02585p3
33156	ENU02586p5
33157	ENU02586p3
33158	ENU02587p5
33159	ENU02587p3
33160	ENU02588p5
33161	ENU02588p3
33162	ENU02589p5
33163	ENU02589p3
33164	ENU02590p5
33165	ENU02590p3
33166	ENU02591p5
33167	ENU02591p3
33168	ENU02592p5
33169	ENU02592p3
33170	ENU02593p5
33171	ENU02593p3
33172	ENU02594p5
33173	ENU02594p3
33174	ENU02595p5
33175	ENU02595p3
33176	ENU02596p5
33177	ENU02596p3
33178	ENU02597p5
33179	ENU02597p3
33180	ENU02598p5
33181	ENU02598p3
33182	ENU02599p5
33183	ENU02599p3
33184	ENU02600p5
33185	ENU02600p3
33186	ENU02601p5
33187	ENU02601p3
33188	ENU02602p5
33189	ENU02602p3
33190	ENU02603p5
33191	ENU02603p3
33192	ENU02604p5
33193	ENU02604p3
33194	ENU02605p5
33195	ENU02605p3
33196	ENU02606p5
33197	ENU02606p3
33198	ENU02607p5
33199	ENU02607p3
33200	ENU02608p5
33201	ENU02608p3
33202	ENU02609p5

33203	ENU02609p3
33204	ENU02610p5
33205	ENU02610p3
33206	ENU02611p5
33207	ENU02611p3
33208	ENU02612p5
33209	ENU02612p3
33210	ENU02613p5
33211	ENU02613p3
33212	ENU02614p5
33213	ENU02614p3
33214	ENU02615p5
33215	ENU02615p3
33216	ENU02616p5
33217	ENU02616p3
33218	ENU02617p5
33219	ENU02617p3
33220	ENU02618p5
33221	ENU02618p3
33222	ENU02619p5
33223	ENU02619p3
33224	ENU02620p5
33225	ENU02620p3
33226	ENU02621p5
33227	ENU02621p3
33228	ENU02622p5
33229	ENU02622p3
33230	ENU02623p5
33231	ENU02623p3
33232	ENU02624p5
33233	ENU02624p3
33234	ENU02625p5
33235	ENU02625p3
33236	ENU02626p5
33237	ENU02626p3
33238	ENU02627p5
33239	ENU02627p3
33240	ENU02628p5
33241	ENU02628p3
33242	ENU02629p5
33243	ENU02629p3
33244	ENU02630p5
33245	ENU02630p3
33246	ENU02631p5
33247	ENU02631p3
33248	ENU02632p5
33249	ENU02632p3
33250	ENU02633p5
33251	ENU02633p3
33252	ENU02634p5
33253	ENU02634p3
33254	ENU02635p5
33255	ENU02635p3
33256	ENU02636p5
33257	ENU02636p3
33258	ENU02637p5

33259	ENU02637p3
33260	ENU02638p5
33261	ENU02638p3
33262	ENU02639p5
33263	ENU02639p3
33264	ENU02640p5
33265	ENU02640p3
33266	ENU02641p5
33267	ENU02641p3
33268	ENU02642p5
33269	ENU02642p3
33270	ENU02643p5
33271	ENU02643p3
33272	ENU02644p5
33273	ENU02644p3
33274	ENU02645p5
33275	ENU02645p3
33276	ENU02646p5
33277	ENU02646p3
33278	ENU02647p5
33279	ENU02647p3
33280	ENU02648p5
33281	ENU02648p3
33282	ENU02649p5
33283	ENU02649p3
33284	ENU02650p5
33285	ENU02650p3
33286	ENU02651p5
33287	ENU02651p3
33288	ENU02652p5
33289	ENU02652p3
33290	ENU02653p5
33291	ENU02653p3
33292	ENU02654p5
33293	ENU02654p3
33294	ENU02655p5
33295	ENU02655p3
33296	ENU02656p5
33297	ENU02656p3
33298	ENU02657p5
33299	ENU02657p3
33300	ENU02658p5
33301	ENU02658p3
33302	ENU02659p5
33303	ENU02659p3
33304	ENU02660p5
33305	ENU02660p3
33306	ENU02661p5
33307	ENU02661p3
33308	ENU02662p5
33309	ENU02662p3
33310	ENU02663p5
33311	ENU02663p3
33312	ENU02664p5
33313	ENU02664p3
33314	ENU02665p5

33315	ENU02665p3
33316	ENU02666p5
33317	ENU02666p3
33318	ENU02667p5
33319	ENU02667p3
33320	ENU02668p5
33321	ENU02668p3
33322	ENU02669p5
33323	ENU02669p3
33324	ENU02670p5
33325	ENU02670p3
33326	ENU02671p5
33327	ENU02671p3
33328	ENU02672p5
33329	ENU02672p3
33330	ENU02673p5
33331	ENU02673p3
33332	ENU02674p5
33333	ENU02674p3
33334	ENU02675p5
33335	ENU02675p3
33336	ENU02676p5
33337	ENU02676p3
33338	ENU02677p5
33339	ENU02677p3
33340	ENU02678p5
33341	ENU02678p3
33342	ENU02679p5
33343	ENU02679p3
33344	ENU02680p5
33345	ENU02680p3
33346	ENU02681p5
33347	ENU02681p3
33348	ENU02682p5
33349	ENU02682p3
33350	ENU02683p5
33351	ENU02683p3
33352	ENU02684p5
33353	ENU02684p3
33354	ENU02685p5
33355	ENU02685p3
33356	ENU02686p5
33357	ENU02686p3
33358	ENU02687p5
33359	ENU02687p3
33360	ENU02688p5
33361	ENU02688p3
33362	ENU02689p5
33363	ENU02689p3
33364	ENU02690p5
33365	ENU02690p3
33366	ENU02691p5
33367	ENU02691p3
33368	ENU02692p5
33369	ENU02692p3
33370	ENU02693p5

33371	ENU02693p3
33372	ENU02694p5
33373	ENU02694p3
33374	ENU02695p5
33375	ENU02695p3
33376	ENU02696p5
33377	ENU02696p3
33378	ENU02697p5
33379	ENU02697p3
33380	ENU02698p5
33381	ENU02698p3
33382	ENU02699p5
33383	ENU02699p3
33384	ENU02700p5
33385	ENU02700p3
33386	ENU02701p5
33387	ENU02701p3
33388	ENU02702p5
33389	ENU02702p3
33390	ENU02703p5
33391	ENU02703p3
33392	ENU02704p5
33393	ENU02704p3
33394	ENU02705p5
33395	ENU02705p3
33396	ENU02706p5
33397	ENU02706p3
33398	ENU02707p5
33399	ENU02707p3
33400	ENU02708p5
33401	ENU02708p3
33402	ENU02709p5
33403	ENU02709p3
33404	ENU02710p5
33405	ENU02710p3
33406	ENU02711p5
33407	ENU02711p3
33408	ENU02712p5
33409	ENU02712p3
33410	ENU02713p5
33411	ENU02713p3
33412	ENU02714p5
33413	ENU02714p3
33414	ENU02715p5
33415	ENU02715p3
33416	ENU02716p5
33417	ENU02716p3
33418	ENU02717p5
33419	ENU02717p3
33420	ENU02718p5
33421	ENU02718p3
33422	ENU02719p5
33423	ENU02719p3
33424	ENU02720p5
33425	ENU02720p3
33426	ENU02721p5

33427	ENU02721p3
33428	ENU02722p5
33429	ENU02722p3
33430	ENU02723p5
33431	ENU02723p3
33432	ENU02724p5
33433	ENU02724p3
33434	ENU02725p5
33435	ENU02725p3
33436	ENU02726p5
33437	ENU02726p3
33438	ENU02727p5
33439	ENU02727p3
33440	ENU02728p5
33441	ENU02728p3
33442	ENU02729p5
33443	ENU02729p3
33444	ENU02730p5
33445	ENU02730p3
33446	ENU02731p5
33447	ENU02731p3
33448	ENU02732p5
33449	ENU02732p3
33450	ENU02733p5
33451	ENU02733p3
33452	ENU02734p5
33453	ENU02734p3
33454	ENU02735p5
33455	ENU02735p3
33456	ENU02736p5
33457	ENU02736p3
33458	ENU02737p5
33459	ENU02737p3
33460	ENU02738p5
33461	ENU02738p3
33462	ENU02739p5
33463	ENU02739p3
33464	ENU02740p5
33465	ENU02740p3
33466	ENU02741p5
33467	ENU02741p3
33468	ENU02742p5
33469	ENU02742p3
33470	ENU02743p5
33471	ENU02743p3
33472	ENU02744p5
33473	ENU02744p3
33474	ENU02745p5
33475	ENU02745p3
33476	ENU02746p5
33477	ENU02746p3
33478	ENU02747p5
33479	ENU02747p3
33480	ENU02748p5
33481	ENU02748p3
33482	ENU02749p5

33483	ENU02749p3
33484	ENU02750p5
33485	ENU02750p3
33486	ENU02751p5
33487	ENU02751p3
33488	ENU02752p5
33489	ENU02752p3
33490	ENU02753p5
33491	ENU02753p3
33492	ENU02754p5
33493	ENU02754p3
33494	ENU02755p5
33495	ENU02755p3
33496	ENU02756p5
33497	ENU02756p3
33498	ENU02757p5
33499	ENU02757p3
33500	ENU02758p5
33501	ENU02758p3
33502	ENU02759p5
33503	ENU02759p3
33504	ENU02760p5
33505	ENU02760p3
33506	ENU02761p5
33507	ENU02761p3
33508	ENU02762p5
33509	ENU02762p3
33510	ENU02763p5
33511	ENU02763p3
33512	ENU02764p5
33513	ENU02764p3
33514	ENU02765p5
33515	ENU02765p3
33516	ENU02766p5
33517	ENU02766p3
33518	ENU02767p5
33519	ENU02767p3
33520	ENU02768p5
33521	ENU02768p3
33522	ENU02769p5
33523	ENU02769p3
33524	ENU02770p5
33525	ENU02770p3
33526	ENU02771p5
33527	ENU02771p3
33528	ENU02772p5
33529	ENU02772p3
33530	ENU02773p5
33531	ENU02773p3
33532	ENU02774p5
33533	ENU02774p3
33534	ENU02775p5
33535	ENU02775p3
33536	ENU02776p5
33537	ENU02776p3
33538	ENU02777p5

33539	ENU02777p3
33540	ENU02778p5
33541	ENU02778p3
33542	ENU02779p5
33543	ENU02779p3
33544	ENU02780p5
33545	ENU02780p3
33546	ENU02781p5
33547	ENU02781p3
33548	ENU02782p5
33549	ENU02782p3
33550	ENU02783p5
33551	ENU02783p3
33552	ENU02784p5
33553	ENU02784p3
33554	ENU02785p5
33555	ENU02785p3
33556	ENU02786p5
33557	ENU02786p3
33558	ENU02787p5
33559	ENU02787p3
33560	ENU02788p5
33561	ENU02788p3
33562	ENU02789p5
33563	ENU02789p3
33564	ENU02790p5
33565	ENU02790p3
33566	ENU02791p5
33567	ENU02791p3
33568	ENU02792p5
33569	ENU02792p3
33570	ENU02793p5
33571	ENU02793p3
33572	ENU02794p5
33573	ENU02794p3
33574	ENU02795p5
33575	ENU02795p3
33576	ENU02796p5
33577	ENU02796p3
33578	ENU02797p5
33579	ENU02797p3
33580	ENU02798p5
33581	ENU02798p3
33582	ENU02799p5
33583	ENU02799p3
33584	ENU02800p5
33585	ENU02800p3
33586	ENU02801p5
33587	ENU02801p3
33588	ENU02802p5
33589	ENU02802p3
33590	ENU02803p5
33591	ENU02803p3
33592	ENU02804p5
33593	ENU02804p3
33594	ENU02805p5

33595	ENU02805p3
33596	ENU02806p5
33597	ENU02806p3
33598	ENU02807p5
33599	ENU02807p3
33600	ENU02808p5
33601	ENU02808p3
33602	ENU02809p5
33603	ENU02809p3
33604	ENU02810p5
33605	ENU02810p3
33606	ENU02811p5
33607	ENU02811p3
33608	ENU02812p5
33609	ENU02812p3
33610	ENU02813p5
33611	ENU02813p3
33612	ENU02814p5
33613	ENU02814p3
33614	ENU02815p5
33615	ENU02815p3
33616	ENU02816p5
33617	ENU02816p3
33618	ENU02817p5
33619	ENU02817p3
33620	ENU02818p5
33621	ENU02818p3
33622	ENU02819p5
33623	ENU02819p3
33624	ENU02820p5
33625	ENU02820p3
33626	ENU02821p5
33627	ENU02821p3
33628	ENU02822p5
33629	ENU02822p3
33630	ENU02823p5
33631	ENU02823p3
33632	ENU02824p5
33633	ENU02824p3
33634	ENU02825p5
33635	ENU02825p3
33636	ENU02826p5
33637	ENU02826p3
33638	ENU02827p5
33639	ENU02827p3
33640	ENU02828p5
33641	ENU02828p3
33642	ENU02829p5
33643	ENU02829p3
33644	ENU02830p5
33645	ENU02830p3
33646	ENU02831p5
33647	ENU02831p3
33648	ENU02832p5
33649	ENU02832p3
33650	ENU02833p5

33651	ENU02833p3
33652	ENU02834p5
33653	ENU02834p3
33654	ENU02835p5
33655	ENU02835p3
33656	ENU02836p5
33657	ENU02836p3
33658	ENU02837p5
33659	ENU02837p3
33660	ENU02838p5
33661	ENU02838p3
33662	ENU02839p5
33663	ENU02839p3
33664	ENU02840p5
33665	ENU02840p3
33666	ENU02841p5
33667	ENU02841p3
33668	ENU02842p5
33669	ENU02842p3
33670	ENU02843p5
33671	ENU02843p3
33672	ENU02844p5
33673	ENU02844p3
33674	ENU02845p5
33675	ENU02845p3
33676	ENU02846p5
33677	ENU02846p3
33678	ENU02847p5
33679	ENU02847p3
33680	ENU02848p5
33681	ENU02848p3
33682	ENU02849p5
33683	ENU02849p3
33684	ENU02850p5
33685	ENU02850p3
33686	ENU02851p5
33687	ENU02851p3
33688	ENU02852p5
33689	ENU02852p3
33690	ENU02853p5
33691	ENU02853p3
33692	ENU02854p5
33693	ENU02854p3
33694	ENU02855p5
33695	ENU02855p3
33696	ENU02856p5
33697	ENU02856p3
33698	ENU02857p5
33699	ENU02857p3
33700	ENU02858p5
33701	ENU02858p3
33702	ENU02859p5
33703	ENU02859p3
33704	ENU02860p5
33705	ENU02860p3
33706	ENU02861p5

33707	ENU02861p3
33708	ENU02862p5
33709	ENU02862p3
33710	ENU02863p5
33711	ENU02863p3
33712	ENU02864p5
33713	ENU02864p3
33714	ENU02865p5
33715	ENU02865p3
33716	ENU02866p5
33717	ENU02866p3
33718	ENU02867p5
33719	ENU02867p3
33720	ENU02868p5
33721	ENU02868p3
33722	ENU02869p5
33723	ENU02869p3
33724	ENU02870p5
33725	ENU02870p3
33726	ENU02871p5
33727	ENU02871p3
33728	ENU02872p5
33729	ENU02872p3
33730	ENU02873p5
33731	ENU02873p3
33732	ENU02874p5
33733	ENU02874p3
33734	ENU02875p5
33735	ENU02875p3
33736	ENU02876p5
33737	ENU02876p3
33738	ENU02877p5
33739	ENU02877p3
33740	ENU02878p5
33741	ENU02878p3
33742	ENU02879p5
33743	ENU02879p3
33744	ENU02880p5
33745	ENU02880p3
33746	ENU02881p5
33747	ENU02881p3
33748	ENU02882p5
33749	ENU02882p3
33750	ENU02883p5
33751	ENU02883p3
33752	ENU02884p5
33753	ENU02884p3
33754	ENU02885p5
33755	ENU02885p3
33756	ENU02886p5
33757	ENU02886p3
33758	ENU02887p5
33759	ENU02887p3
33760	ENU02888p5
33761	ENU02888p3
33762	ENU02889p5

33763	ENU02889p3
33764	ENU02890p5
33765	ENU02890p3
33766	ENU02891p5
33767	ENU02891p3
33768	ENU02892p5
33769	ENU02892p3
33770	ENU02893p5
33771	ENU02893p3
33772	ENU02894p5
33773	ENU02894p3
33774	ENU02895p5
33775	ENU02895p3
33776	ENU02896p5
33777	ENU02896p3
33778	ENU02897p5
33779	ENU02897p3
33780	ENU02898p5
33781	ENU02898p3
33782	ENU02899p5
33783	ENU02899p3
33784	ENU02900p5
33785	ENU02900p3
33786	ENU02901p5
33787	ENU02901p3
33788	ENU02902p5
33789	ENU02902p3
33790	ENU02903p5
33791	ENU02903p3
33792	ENU02904p5
33793	ENU02904p3
33794	ENU02905p5
33795	ENU02905p3
33796	ENU02906p5
33797	ENU02906p3
33798	ENU02907p5
33799	ENU02907p3
33800	ENU02908p5
33801	ENU02908p3
33802	ENU02909p5
33803	ENU02909p3
33804	ENU02910p5
33805	ENU02910p3
33806	ENU02911p5
33807	ENU02911p3
33808	ENU02912p5
33809	ENU02912p3
33810	ENU02913p5
33811	ENU02913p3
33812	ENU02914p5
33813	ENU02914p3
33814	ENU02915p5
33815	ENU02915p3
33816	ENU02916p5
33817	ENU02916p3
33818	ENU02917p5

33819	ENU02917p3
33820	ENU02918p5
33821	ENU02918p3
33822	ENU02919p5
33823	ENU02919p3
33824	ENU02920p5
33825	ENU02920p3
33826	ENU02921p5
33827	ENU02921p3
33828	ENU02922p5
33829	ENU02922p3
33830	ENU02923p5
33831	ENU02923p3
33832	ENU02924p5
33833	ENU02924p3
33834	ENU02925p5
33835	ENU02925p3
33836	ENU02926p5
33837	ENU02926p3
33838	ENU02927p5
33839	ENU02927p3
33840	ENU02928p5
33841	ENU02928p3
33842	ENU02929p5
33843	ENU02929p3
33844	ENU02930p5
33845	ENU02930p3
33846	ENU02931p5
33847	ENU02931p3
33848	ENU02932p5
33849	ENU02932p3
33850	ENU02933p5
33851	ENU02933p3
33852	ENU02934p5
33853	ENU02934p3
33854	ENU02935p5
33855	ENU02935p3
33856	ENU02936p5
33857	ENU02936p3
33858	ENU02937p5
33859	ENU02937p3
33860	ENU02938p5
33861	ENU02938p3
33862	ENU02939p5
33863	ENU02939p3
33864	ENU02940p5
33865	ENU02940p3
33866	ENU02941p5
33867	ENU02941p3
33868	ENU02942p5
33869	ENU02942p3
33870	ENU02943p5
33871	ENU02943p3
33872	ENU02944p5
33873	ENU02944p3
33874	ENU02945p5

33875	ENU02945p3
33876	ENU02946p5
33877	ENU02946p3
33878	ENU02947p5
33879	ENU02947p3
33880	ENU02948p5
33881	ENU02948p3
33882	ENU02949p5
33883	ENU02949p3
33884	ENU02950p5
33885	ENU02950p3
33886	ENU02951p5
33887	ENU02951p3
33888	ENU02952p5
33889	ENU02952p3
33890	ENU02953p5
33891	ENU02953p3
33892	ENU02954p5
33893	ENU02954p3
33894	ENU02955p5
33895	ENU02955p3
33896	ENU02956p5
33897	ENU02956p3
33898	ENU02957p5
33899	ENU02957p3
33900	ENU02958p5
33901	ENU02958p3
33902	ENU02959p5
33903	ENU02959p3
33904	ENU02960p5
33905	ENU02960p3
33906	ENU02961p5
33907	ENU02961p3
33908	ENU02962p5
33909	ENU02962p3
33910	ENU02963p5
33911	ENU02963p3
33912	ENU02964p5
33913	ENU02964p3
33914	ENU02965p5
33915	ENU02965p3
33916	ENU02966p5
33917	ENU02966p3
33918	ENU02967p5
33919	ENU02967p3
33920	ENU02968p5
33921	ENU02968p3
33922	ENU02969p5
33923	ENU02969p3
33924	ENU02970p5
33925	ENU02970p3
33926	ENU02971p5
33927	ENU02971p3
33928	ENU02972p5
33929	ENU02972p3
33930	ENU02973p5

33931	ENU02973p3
33932	ENU02974p5
33933	ENU02974p3
33934	ENU02975p5
33935	ENU02975p3
33936	ENU02976p5
33937	ENU02976p3
33938	ENU02977p5
33939	ENU02977p3
33940	ENU02978p5
33941	ENU02978p3
33942	ENU02979p5
33943	ENU02979p3
33944	ENU02980p5
33945	ENU02980p3
33946	ENU02981p5
33947	ENU02981p3
33948	ENU02982p5
33949	ENU02982p3
33950	ENU02983p5
33951	ENU02983p3
33952	ENU02984p5
33953	ENU02984p3
33954	ENU02985p5
33955	ENU02985p3
33956	ENU02986p5
33957	ENU02986p3
33958	ENU02987p5
33959	ENU02987p3
33960	ENU02988p5
33961	ENU02988p3
33962	ENU02989p5
33963	ENU02989p3
33964	ENU02990p5
33965	ENU02990p3
33966	ENU02991p5
33967	ENU02991p3
33968	ENU02992p5
33969	ENU02992p3
33970	ENU02993p5
33971	ENU02993p3
33972	ENU02994p5
33973	ENU02994p3
33974	ENU02995p5
33975	ENU02995p3
33976	ENU02996p5
33977	ENU02996p3
33978	ENU02997p5
33979	ENU02997p3
33980	ENU02998p5
33981	ENU02998p3
33982	ENU02999p5
33983	ENU02999p3
33984	ENU03000p5
33985	ENU03000p3
33986	ENU03001p5

33987	ENU03001p3
33988	ENU03002p5
33989	ENU03002p3
33990	ENU03003p5
33991	ENU03003p3
33992	ENU03004p5
33993	ENU03004p3
33994	ENU03005p5
33995	ENU03005p3
33996	ENU03006p5
33997	ENU03006p3
33998	ENU03007p5
33999	ENU03007p3
34000	ENU03008p5
34001	ENU03008p3
34002	ENU03009p5
34003	ENU03009p3
34004	ENU03010p5
34005	ENU03010p3
34006	ENU03011p5
34007	ENU03011p3
34008	ENU03012p5
34009	ENU03012p3
34010	ENU03013p5
34011	ENU03013p3
34012	ENU03014p5
34013	ENU03014p3
34014	ENU03015p5
34015	ENU03015p3
34016	ENU03016p5
34017	ENU03016p3
34018	ENU03017p5
34019	ENU03017p3
34020	ENU03018p5
34021	ENU03018p3
34022	ENU03019p5
34023	ENU03019p3
34024	ENU03020p5
34025	ENU03020p3
34026	ENU03021p5
34027	ENU03021p3
34028	ENU03022p5
34029	ENU03022p3
34030	ENU03023p5
34031	ENU03023p3
34032	ENU03024p5
34033	ENU03024p3
34034	ENU03025p5
34035	ENU03025p3
34036	ENU03026p5
34037	ENU03026p3
34038	ENU03027p5
34039	ENU03027p3
34040	ENU03028p5
34041	ENU03028p3
34042	ENU03029p5

34043	ENU03029p3
34044	ENU03030p5
34045	ENU03030p3
34046	ENU03031p5
34047	ENU03031p3
34048	ENU03032p5
34049	ENU03032p3
34050	ENU03033p5
34051	ENU03033p3
34052	ENU03034p5
34053	ENU03034p3
34054	ENU03035p5
34055	ENU03035p3
34056	ENU03036p5
34057	ENU03036p3
34058	ENU03037p5
34059	ENU03037p3
34060	ENU03038p5
34061	ENU03038p3
34062	ENU03039p5
34063	ENU03039p3
34064	ENU03040p5
34065	ENU03040p3
34066	ENU03041p5
34067	ENU03041p3
34068	ENU03042p5
34069	ENU03042p3
34070	ENU03043p5
34071	ENU03043p3
34072	ENU03044p5
34073	ENU03044p3
34074	ENU03045p5
34075	ENU03045p3
34076	ENU03046p5
34077	ENU03046p3
34078	ENU03047p5
34079	ENU03047p3
34080	ENU03048p5
34081	ENU03048p3
34082	ENU03049p5
34083	ENU03049p3
34084	ENU03050p5
34085	ENU03050p3
34086	ENU03051p5
34087	ENU03051p3
34088	ENU03052p5
34089	ENU03052p3
34090	ENU03053p5
34091	ENU03053p3
34092	ENU03054p5
34093	ENU03054p3
34094	ENU03055p5
34095	ENU03055p3
34096	ENU03056p5
34097	ENU03056p3
34098	ENU03057p5

34099	ENU03057p3
34100	ENU03058p5
34101	ENU03058p3
34102	ENU03059p5
34103	ENU03059p3
34104	ENU03060p5
34105	ENU03060p3
34106	ENU03061p5
34107	ENU03061p3
34108	ENU03062p5
34109	ENU03062p3
34110	ENU03063p5
34111	ENU03063p3
34112	ENU03064p5
34113	ENU03064p3
34114	ENU03065p5
34115	ENU03065p3
34116	ENU03066p5
34117	ENU03066p3
34118	ENU03067p5
34119	ENU03067p3
34120	ENU03068p5
34121	ENU03068p3
34122	ENU03069p5
34123	ENU03069p3
34124	ENU03070p5
34125	ENU03070p3
34126	ENU03071p5
34127	ENU03071p3
34128	ENU03072p5
34129	ENU03072p3
34130	ENU03073p5
34131	ENU03073p3
34132	ENU03074p5
34133	ENU03074p3
34134	ENU03075p5
34135	ENU03075p3
34136	ENU03076p5
34137	ENU03076p3
34138	ENU03077p5
34139	ENU03077p3
34140	ENU03078p5
34141	ENU03078p3
34142	ENU03079p5
34143	ENU03079p3
34144	ENU03080p5
34145	ENU03080p3
34146	ENU03081p5
34147	ENU03081p3
34148	ENU03082p5
34149	ENU03082p3
34150	ENU03083p5
34151	ENU03083p3
34152	ENU03084p5
34153	ENU03084p3
34154	ENU03085p5

34155	ENU03085p3
34156	ENU03086p5
34157	ENU03086p3
34158	ENU03087p5
34159	ENU03087p3
34160	ENU03088p5
34161	ENU03088p3
34162	ENU03089p5
34163	ENU03089p3
34164	ENU03090p5
34165	ENU03090p3
34166	ENU03091p5
34167	ENU03091p3
34168	ENU03092p5
34169	ENU03092p3
34170	ENU03093p5
34171	ENU03093p3
34172	ENU03094p5
34173	ENU03094p3
34174	ENU03095p5
34175	ENU03095p3
34176	ENU03096p5
34177	ENU03096p3
34178	ENU03097p5
34179	ENU03097p3
34180	ENU03098p5
34181	ENU03098p3
34182	ENU03099p5
34183	ENU03099p3
34184	ENU03100p5
34185	ENU03100p3
34186	ENU03101p5
34187	ENU03101p3
34188	ENU03102p5
34189	ENU03102p3
34190	ENU03103p5
34191	ENU03103p3
34192	ENU03104p5
34193	ENU03104p3
34194	ENU03105p5
34195	ENU03105p3
34196	ENU03106p5
34197	ENU03106p3
34198	ENU03107p5
34199	ENU03107p3
34200	ENU03108p5
34201	ENU03108p3
34202	ENU03109p5
34203	ENU03109p3
34204	ENU03110p5
34205	ENU03110p3
34206	ENU03111p5
34207	ENU03111p3
34208	ENU03112p5
34209	ENU03112p3
34210	ENU03113p5

34211	ENU03113p3
34212	ENU03114p5
34213	ENU03114p3
34214	ENU03115p5
34215	ENU03115p3
34216	ENU03116p5
34217	ENU03116p3
34218	ENU03117p5
34219	ENU03117p3
34220	ENU03118p5
34221	ENU03118p3
34222	ENU03119p5
34223	ENU03119p3
34224	ENU03120p5
34225	ENU03120p3
34226	ENU03121p5
34227	ENU03121p3
34228	ENU03122p5
34229	ENU03122p3
34230	ENU03123p5
34231	ENU03123p3
34232	ENU03124p5
34233	ENU03124p3
34234	ENU03125p5
34235	ENU03125p3
34236	ENU03126p5
34237	ENU03126p3
34238	ENU03127p5
34239	ENU03127p3
34240	ENU03128p5
34241	ENU03128p3
34242	ENU03129p5
34243	ENU03129p3
34244	ENU03130p5
34245	ENU03130p3
34246	ENU03131p5
34247	ENU03131p3
34248	ENU03132p5
34249	ENU03132p3
34250	ENU03133p5
34251	ENU03133p3
34252	ENU03134p5
34253	ENU03134p3
34254	ENU03135p5
34255	ENU03135p3
34256	ENU03136p5
34257	ENU03136p3
34258	ENU03137p5
34259	ENU03137p3
34260	ENU03138p5
34261	ENU03138p3
34262	ENU03139p5
34263	ENU03139p3
34264	ENU03140p5
34265	ENU03140p3
34266	ENU03141p5

34267	ENU03141p3
34268	ENU03142p5
34269	ENU03142p3
34270	ENU03143p5
34271	ENU03143p3
34272	ENU03144p5
34273	ENU03144p3
34274	ENU03145p5
34275	ENU03145p3
34276	ENU03146p5
34277	ENU03146p3
34278	ENU03147p5
34279	ENU03147p3
34280	ENU03148p5
34281	ENU03148p3
34282	ENU03149p5
34283	ENU03149p3
34284	ENU03150p5
34285	ENU03150p3
34286	ENU03151p5
34287	ENU03151p3
34288	ENU03152p5
34289	ENU03152p3
34290	ENU03153p5
34291	ENU03153p3
34292	ENU03154p5
34293	ENU03154p3
34294	ENU03155p5
34295	ENU03155p3
34296	ENU03156p5
34297	ENU03156p3
34298	ENU03157p5
34299	ENU03157p3
34300	ENU03158p5
34301	ENU03158p3
34302	ENU03159p5
34303	ENU03159p3
34304	ENU03160p5
34305	ENU03160p3
34306	ENU03161p5
34307	ENU03161p3
34308	ENU03162p5
34309	ENU03162p3
34310	ENU03163p5
34311	ENU03163p3
34312	ENU03164p5
34313	ENU03164p3
34314	ENU03165p5
34315	ENU03165p3
34316	ENU03166p5
34317	ENU03166p3
34318	ENU03167p5
34319	ENU03167p3
34320	ENU03168p5
34321	ENU03168p3
34322	ENU03169p5

34323	ENU03169p3
34324	ENU03170p5
34325	ENU03170p3
34326	ENU03171p5
34327	ENU03171p3
34328	ENU03172p5
34329	ENU03172p3
34330	ENU03173p5
34331	ENU03173p3
34332	ENU03174p5
34333	ENU03174p3
34334	ENU03175p5
34335	ENU03175p3
34336	ENU03176p5
34337	ENU03176p3
34338	ENU03177p5
34339	ENU03177p3
34340	ENU03178p5
34341	ENU03178p3
34342	ENU03179p5
34343	ENU03179p3
34344	ENU03180p5
34345	ENU03180p3
34346	ENU03181p5
34347	ENU03181p3
34348	ENU03182p5
34349	ENU03182p3
34350	ENU03183p5
34351	ENU03183p3
34352	ENU03184p5
34353	ENU03184p3
34354	ENU03185p5
34355	ENU03185p3
34356	ENU03186p5
34357	ENU03186p3
34358	ENU03187p5
34359	ENU03187p3
34360	ENU03188p5
34361	ENU03188p3
34362	ENU03189p5
34363	ENU03189p3
34364	ENU03190p5
34365	ENU03190p3
34366	ENU03191p5
34367	ENU03191p3
34368	ENU03192p5
34369	ENU03192p3
34370	ENU03193p5
34371	ENU03193p3
34372	ENU03194p5
34373	ENU03194p3
34374	ENU03195p5
34375	ENU03195p3
34376	ENU03196p5
34377	ENU03196p3
34378	ENU03197p5

34379	ENU03197p3
34380	ENU03198p5
34381	ENU03198p3
34382	ENU03199p5
34383	ENU03199p3
34384	ENU03200p5
34385	ENU03200p3
34386	ENU03201p5
34387	ENU03201p3
34388	ENU03202p5
34389	ENU03202p3
34390	ENU03203p5
34391	ENU03203p3
34392	ENU03204p5
34393	ENU03204p3
34394	ENU03205p5
34395	ENU03205p3
34396	ENU03206p5
34397	ENU03206p3
34398	ENU03207p5
34399	ENU03207p3
34400	ENU03208p5
34401	ENU03208p3
34402	ENU03209p5
34403	ENU03209p3
34404	ENU03210p5
34405	ENU03210p3
34406	ENU03211p5
34407	ENU03211p3
34408	ENU03212p5
34409	ENU03212p3
34410	ENU03213p5
34411	ENU03213p3
34412	ENU03214p5
34413	ENU03214p3
34414	ENU03215p5
34415	ENU03215p3
34416	ENU03216p5
34417	ENU03216p3
34418	ENU03217p5
34419	ENU03217p3
34420	ENU03218p5
34421	ENU03218p3
34422	ENU03219p5
34423	ENU03219p3
34424	ENU03220p5
34425	ENU03220p3
34426	ENU03221p5
34427	ENU03221p3
34428	ENU03222p5
34429	ENU03222p3
34430	ENU03223p5
34431	ENU03223p3
34432	ENU03224p5
34433	ENU03224p3
34434	ENU03225p5

34435	ENU03225p3
34436	ENU03226p5
34437	ENU03226p3
34438	ENU03227p5
34439	ENU03227p3
34440	ENU03228p5
34441	ENU03228p3
34442	ENU03229p5
34443	ENU03229p3
34444	ENU03230p5
34445	ENU03230p3
34446	ENU03231p5
34447	ENU03231p3
34448	ENU03232p5
34449	ENU03232p3
34450	ENU03233p5
34451	ENU03233p3
34452	ENU03234p5
34453	ENU03234p3
34454	ENU03235p5
34455	ENU03235p3
34456	ENU03236p5
34457	ENU03236p3
34458	ENU03237p5
34459	ENU03237p3
34460	ENU03238p5
34461	ENU03238p3
34462	ENU03239p5
34463	ENU03239p3
34464	ENU03240p5
34465	ENU03240p3
34466	ENU03241p5
34467	ENU03241p3
34468	ENU03242p5
34469	ENU03242p3
34470	ENU03243p5
34471	ENU03243p3
34472	ENU03244p5
34473	ENU03244p3
34474	ENU03245p5
34475	ENU03245p3
34476	ENU03246p5
34477	ENU03246p3
34478	ENU03247p5
34479	ENU03247p3
34480	ENU03248p5
34481	ENU03248p3
34482	ENU03249p5
34483	ENU03249p3
34484	ENU03250p5
34485	ENU03250p3
34486	ENU03251p5
34487	ENU03251p3
34488	ENU03252p5
34489	ENU03252p3
34490	ENU03253p5

34491	ENU03253p3
34492	ENU03254p5
34493	ENU03254p3
34494	ENU03255p5
34495	ENU03255p3
34496	ENU03256p5
34497	ENU03256p3
34498	ENU03257p5
34499	ENU03257p3
34500	ENU03258p5
34501	ENU03258p3
34502	ENU03259p5
34503	ENU03259p3
34504	ENU03260p5
34505	ENU03260p3
34506	ENU03261p5
34507	ENU03261p3
34508	ENU03262p5
34509	ENU03262p3
34510	ENU03263p5
34511	ENU03263p3
34512	ENU03264p5
34513	ENU03264p3
34514	ENU03265p5
34515	ENU03265p3
34516	ENU03266p5
34517	ENU03266p3
34518	ENU03267p5
34519	ENU03267p3
34520	ENU03268p5
34521	ENU03268p3
34522	ENU03269p5
34523	ENU03269p3
34524	ENU03270p5
34525	ENU03270p3
34526	ENU03271p5
34527	ENU03271p3
34528	ENU03272p5
34529	ENU03272p3
34530	ENU03273p5
34531	ENU03273p3
34532	ENU03274p5
34533	ENU03274p3
34534	ENU03275p5
34535	ENU03275p3
34536	ENU03276p5
34537	ENU03276p3
34538	ENU03277p5
34539	ENU03277p3
34540	ENU03278p5
34541	ENU03278p3
34542	ENU03279p5
34543	ENU03279p3
34544	ENU03280p5
34545	ENU03280p3
34546	ENU03281p5

34547	ENU03281p3
34548	ENU03282p5
34549	ENU03282p3
34550	ENU03283p5
34551	ENU03283p3
34552	ENU03284p5
34553	ENU03284p3
34554	ENU03285p5
34555	ENU03285p3
34556	ENU03286p5
34557	ENU03286p3
34558	ENU03287p5
34559	ENU03287p3
34560	ENU03288p5
34561	ENU03288p3
34562	ENU03289p5
34563	ENU03289p3
34564	ENU03290p5
34565	ENU03290p3
34566	ENU03291p5
34567	ENU03291p3
34568	ENU03292p5
34569	ENU03292p3
34570	ENU03293p5
34571	ENU03293p3
34572	ENU03294p5
34573	ENU03294p3
34574	ENU03295p5
34575	ENU03295p3
34576	ENU03296p5
34577	ENU03296p3
34578	ENU03297p5
34579	ENU03297p3
34580	ENU03298p5
34581	ENU03298p3
34582	ENU03299p5
34583	ENU03299p3
34584	ENU03300p5
34585	ENU03300p3
34586	ENU03301p5
34587	ENU03301p3
34588	ENU03302p5
34589	ENU03302p3
34590	ENU03303p5
34591	ENU03303p3
34592	ENU03304p5
34593	ENU03304p3
34594	ENU03305p5
34595	ENU03305p3
34596	ENU03306p5
34597	ENU03306p3
34598	ENU03307p5
34599	ENU03307p3
34600	ENU03308p5
34601	ENU03308p3
34602	ENU03309p5